SAMSUNG

8mm CAMCORDER

VP-K60/VP-K70/VP-K75
VP-K80/VP-K85

8

SERVICE Supplement

Subject 1 : Initial data change of camera adjustment.

1. VP-K60/VP-K70/VP-K75
   According as ICA01 was changed from OTP (Part No. : AC09-10007X, IC-MICOM ; UPD78P214GC-AB8) in the Service Manual to the first Masking (Part No. : AD09-10450B, MASK-ROM ; UPD78214GC-J43-AB8) and the second Masking (Part No. : AD11-10020D, MASK-ROM ; UPD78214GC-J52-AB8), the changed contents of initial data are described in this supplement.
2. VP-K80/VP-K85
   ICA01 is the same as the Mask-Rom ((Part No. : AD11-10020C, MASK-ROM ; UPD78214GC-J51-AB8) in Service Manual. But, According to the change of initial data, the changed contents are described in this supplement.

Subject 2 : CVF change and correction of PCB diagram in S/Manual.

1. According as VRE06 (R-Sub Bright), VRE07 (B-Sub Bright) were added in the CVF Process Board, the changed adjustments are described in this supplement.
2. The CVF Process PCB in S/Manual (Part No. : 64739-0201-00) of VP-K60/VP-K70/VP-K75 is updated.
3. The CVF Drive PCB and CVF Process PCB in S/Manual of VP-K80/VP-K85 (Part No. : AC68-20255A) are corrected.
4. The updated CVF Electrical Parts List.
   The updated CVF Schematic Diagram.

Subject 3 : Cabinet Assembly

1. New Cabinet Assembly according to the change of description.
2. Individual Parts List by Buyer.

Subject 4 : VP-K80/VP-K85 Schematic correction for mistake in printing.

- System Control/Servo
- CCD
- Video
- Camera Main

File this Service Supplement with the Service Manual of VP-K60/VP-K70/VP-K75 (64739-0201-00), VP-K80/VP-K85(AC68-20255A).

1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.

2. When reinstalling the chassis and its assemblies, be sure to restore all pretective devices, including control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contack dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slot, and improperly fitted back covers.

4. Design Alteration Warning :
   Never alter or add to the mechanical or electrical design of the unit. Example : Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (See Fig. 1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances and Underwriters Laboratories UL Publication UL1410, 59.70).

   With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known erathe ground (metal water pipe, etc.) and all exposed metal parts. Examples : Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power plug prongs in the AC outlet and repeat.

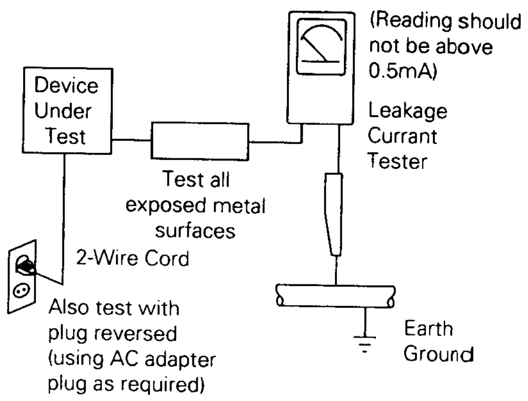

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1 AC Leakage Test

6. Insulation Resistance Cold Check :
   (1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs.
   (2) Set the power switch to ON.
   (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example : Screwheads, antenna, control shafts or handle brackets.

If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. (See Fig. 2)

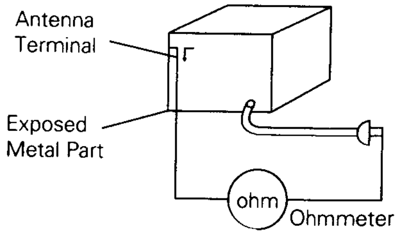


Fig. 2 Insulation resistance Test

1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications.
   Always determine the cause of damage or overheating, and correct any potential hazards.

8. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.

9. Product Safety Notice :
   Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

10. Components that are critical for safety are indicated in the circuit diagram by shading, ⚠ or ⚠. Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to :
   (a) Remove or reinstall any component or assembly,
   (b) Disconnect an electrical plug or connector,
   (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples : metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure : Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks.
   Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

2. Reference

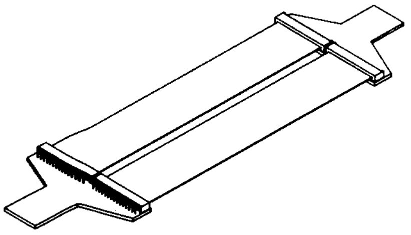
2-1 Servicing Jigs and Special Tools

2-1-1 Servicing Jigs

Part No.	Jig Item	Specification	Description			Remarks
			Main board	CCD board	DC/DC Converter board	
68140-500-028	Extension Cable 1	Pin 44	CNP01 ◄	► CNC01		Troubleshooting
68140-500-026	Extension Cable 2	Pin 34	CN502 ◄	───	► CN901	Troubleshooting
68140-500-029	TP Board	-	Use for adjustment of VCR section. (Connect TP Board to connector CTP501 of Main Board)			For VCR section adjustment
68140-200-122	Video Signal Input Cable	-	Use for color bar signal input cable of connector V-IN of TP Board.			For VCR section adjustment

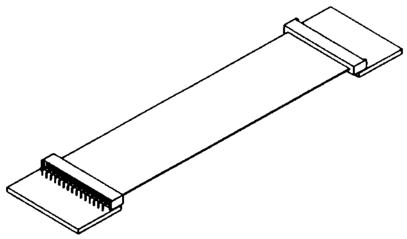
68140-500-028

Extension Cable 1



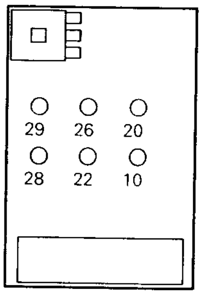
68140-500-026

Extension Cable 2



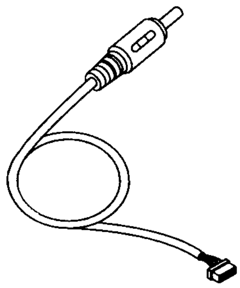
68140-500-029

TP Board

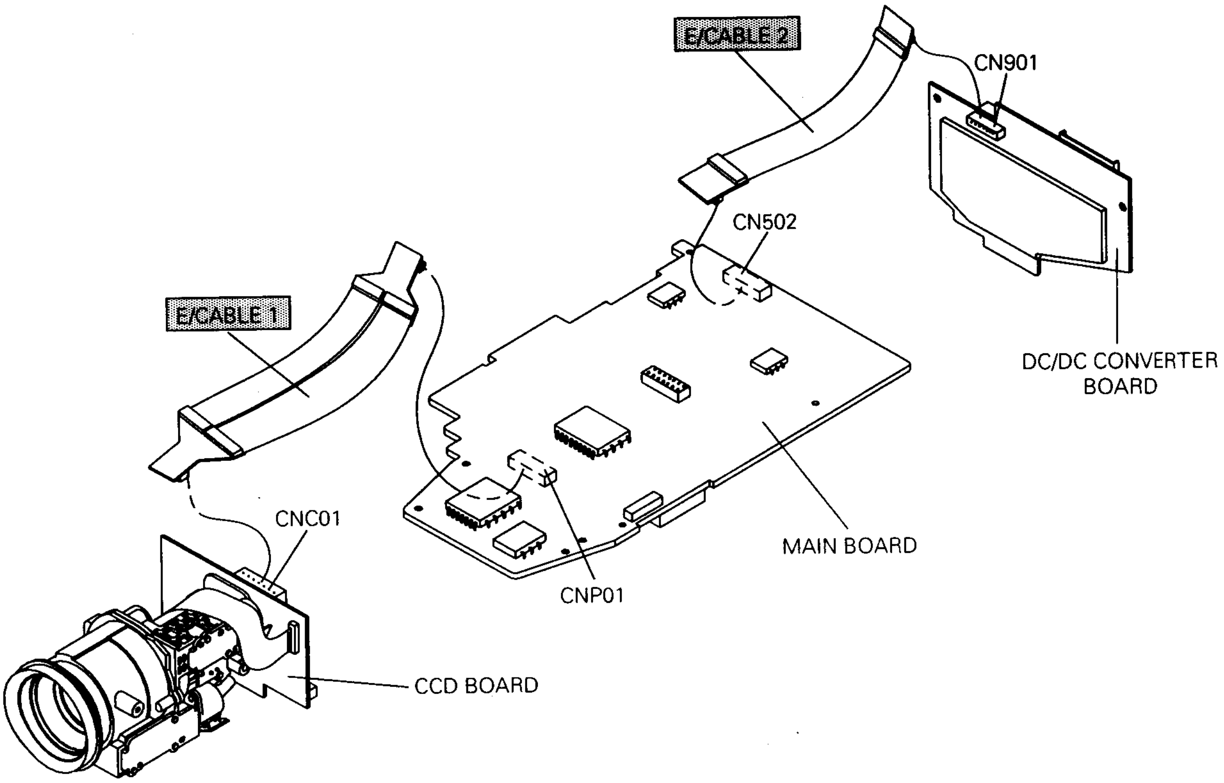


68140-200-122

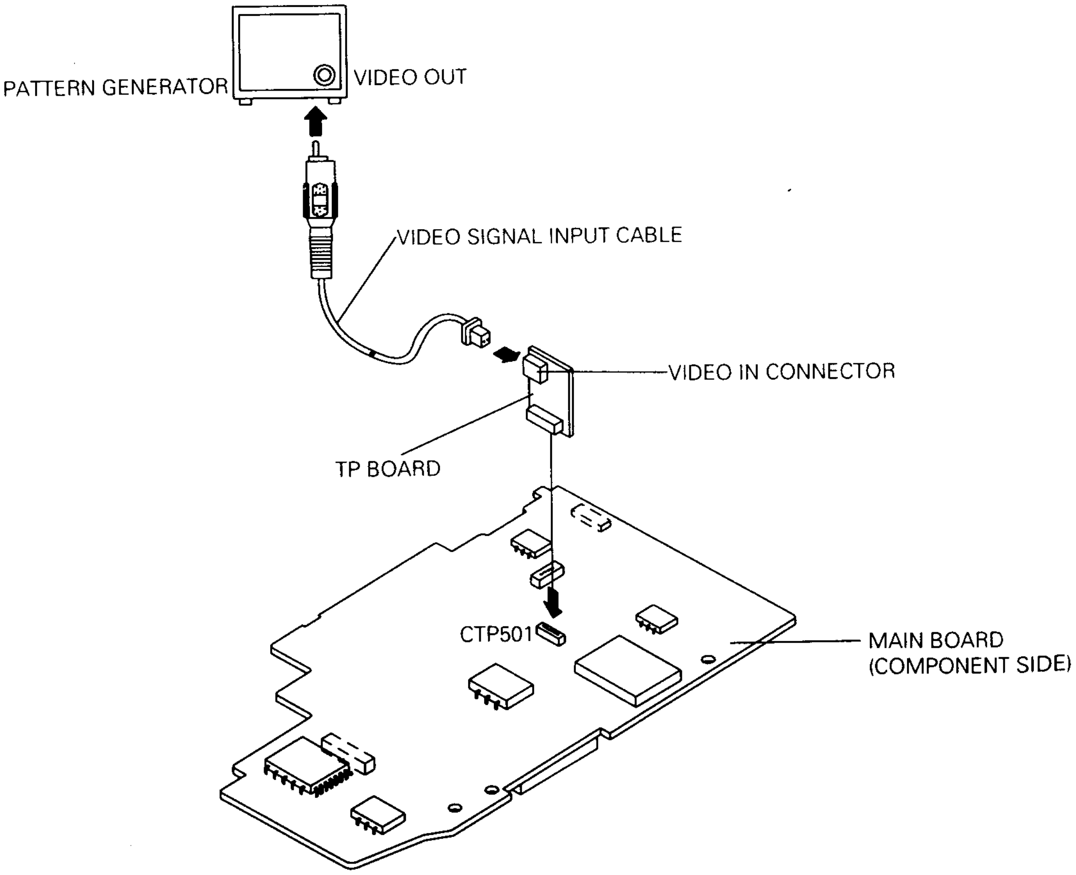
Video Signal Input Cable



2-4-2 Extension Cable Connections


E/CABLE 2
CN901
CN502
E/CABLE 1
DC/DC CONVERTER BOARD
CNC01
MAIN BOARD
CNP01
CCD BOARD

2-4-3 TP Board and Video Signal Input Cable Connections


PATTERN GENERATOR
VIDEO OUT
VIDEO SIGNAL INPUT CABLE
VIDEO IN CONNECTOR
TP BOARD
CTP501
MAIN BOARD (COMPONENT SIDE)

3. Product Specifications

Design and specifications are subject to change without notice.

Operation	Description
SYSTEM	
Recording systems	Video : 2 rotary heads, helical FM scanning Audio : FM system
Video signal	PAL colour, CCIR standard
Cassette format	8 mm
Tape speed	SP mode (Standard Play) : approx. 20.051 mm/sec
Recording/playback time	SP mode (Standard Play) : 1 hour 30 minutes (P5-90)
Fast-forward/rewind time	Approx. 4 min (P5-90)
Image device	CCD (Charge Coupled Device)
Viewfinder	VP-K80 : Black and White electronic viewfinder VP-K85 : Colour viewfinder
Lens	Combined 16X power zoom lens, f=3.9~54.6mm, F1.4 auto wide macro: filter diameter
Automatic focus system	Inner
Colour temperature	Auto/indoors : 3100°K; outdoor : 5100°K
Lighting	> 300 lux (28 footcandles) ; minimum lighting : 2 lux
Aperture correction	Automatic with back light adjustment
INPUT/OUTPUT CONNECTORS	
Video output	Phono jack, 1Vp-p, 75 ohms, unbalanced, SYNC negative
Audio output	Phono jack, 7.5dBs for an output impedance of less than 2.2 Kohms
RFU DC OUT	Special mini-jack, 5V DC
GENERAL	
Power requirement	AC power adaptor (7.5V) ; battery pack (6.0V)
Power consumption	VP-K80 : 5.9W (in camera mode), VP-K85 : 6.2W (in camera mode)
Tripod attachment thread	Attachment screw less than 9mm long
Microphone	Electric condensor microphone, omni-directional, monaural type
Temperature range	Operation : 0°C to 40°C (32°F to 104°F); storage : -20°C to 60°C (-4°F to 140°F)
Dimensions/weight	Appros. 211 X 112 X 111 mm (8.6 X 4.4 X 4.4 inches) ; approx. 797 g including lens cap, excluding battery pack and cassette

Memo

Memo

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs).
   Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semiconductor components or assemblies, drain any electrostatic charge by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power–this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals.
   These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

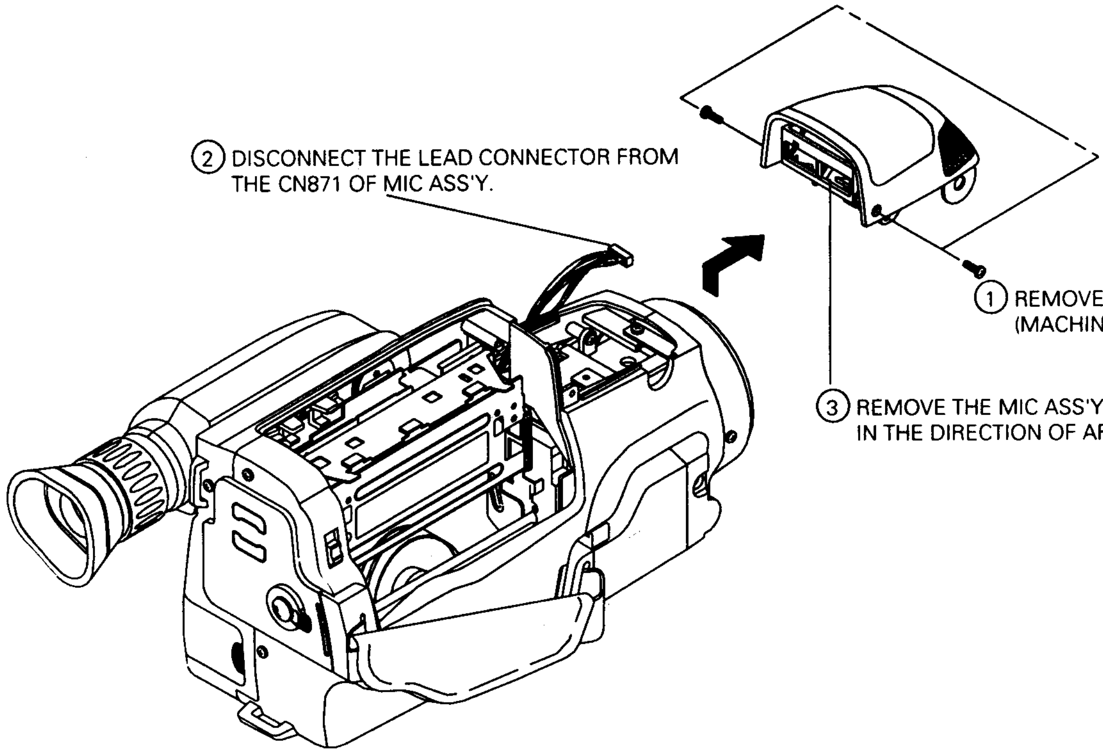
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient charge to damage ESDs).

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

4-1-3 MIC Ass'y Removal

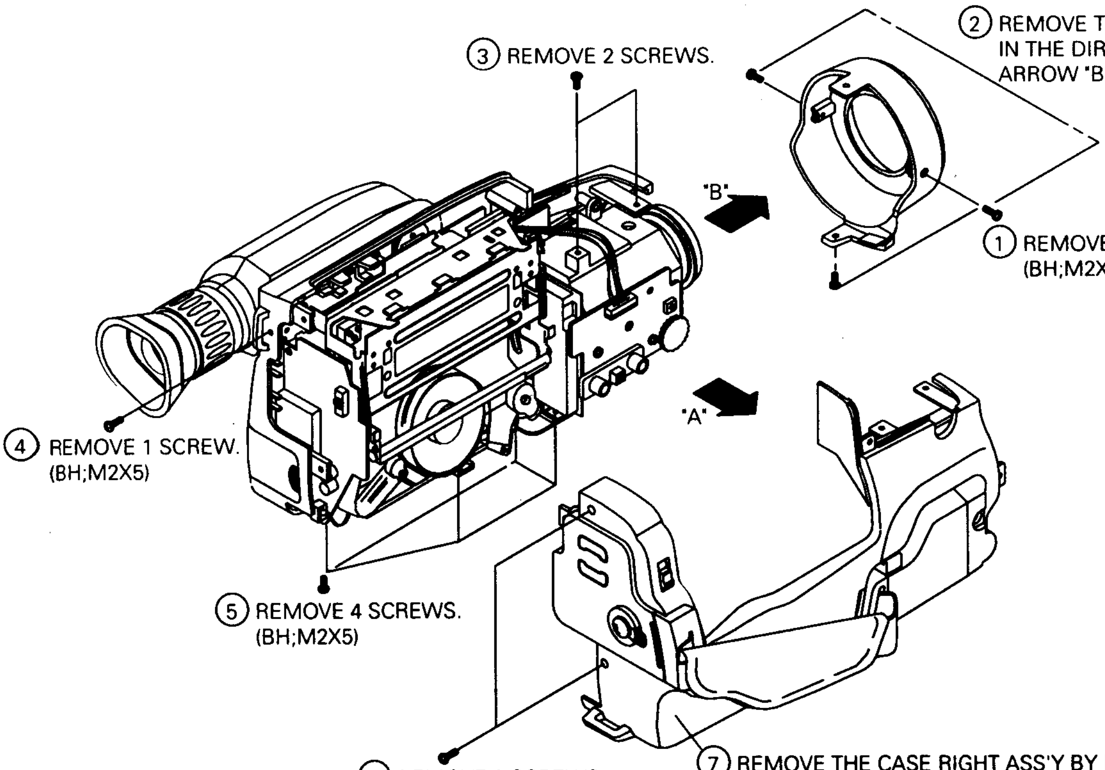


② DISCONNECT THE LEAD CONNECTOR FROM THE CN871 OF MIC ASS'Y.

① REMOVE 2 SCREWS. (MACHINE M2X5)

③ REMOVE THE MIC ASS'Y IN THE DIRECTION OF ARROW.

4-1-4 Case Right Ass'y Removal



③ REMOVE 2 SCREWS.

② REMOVE THE HOOD-LENS IN THE DIRECTION OF ARROW "B".

① REMOVE 3 SCREWS. (BH;M2X5)

④ REMOVE 1 SCREW. (BH;M2X5)

⑤ REMOVE 4 SCREWS. (BH;M2X5)

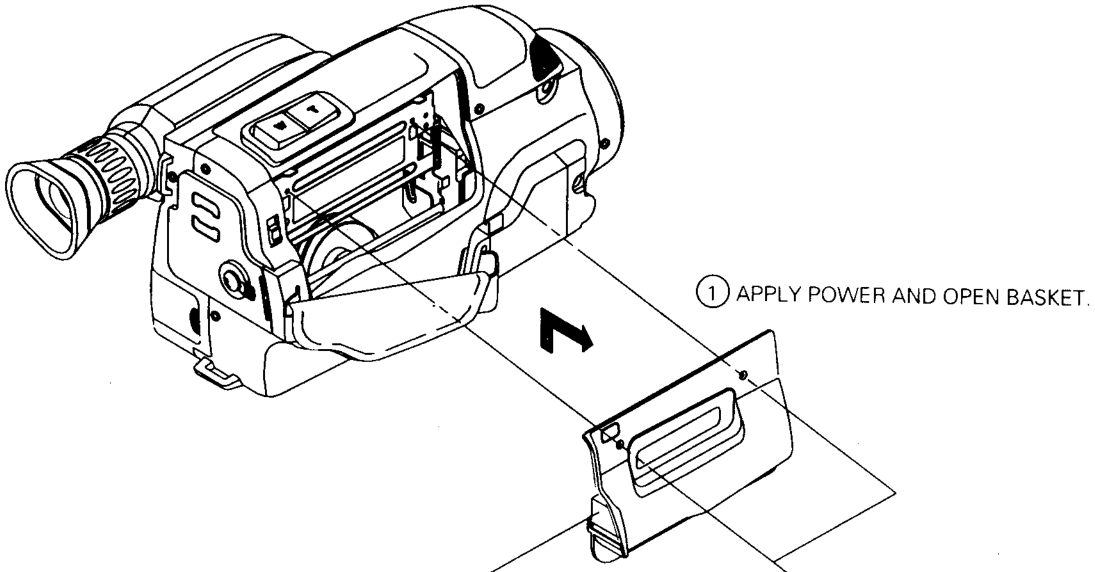
⑥ REMOVE 2 SCREWS. (BH;M2X5)

⑦ REMOVE THE CASE RIGHT ASS'Y BY IN THE DIRECTION OF ARROW "A".

4. Disassembly and Reassembly

4-1 Cabinet Disassembly

4-1-1 Cover Housing Ass'y Removal

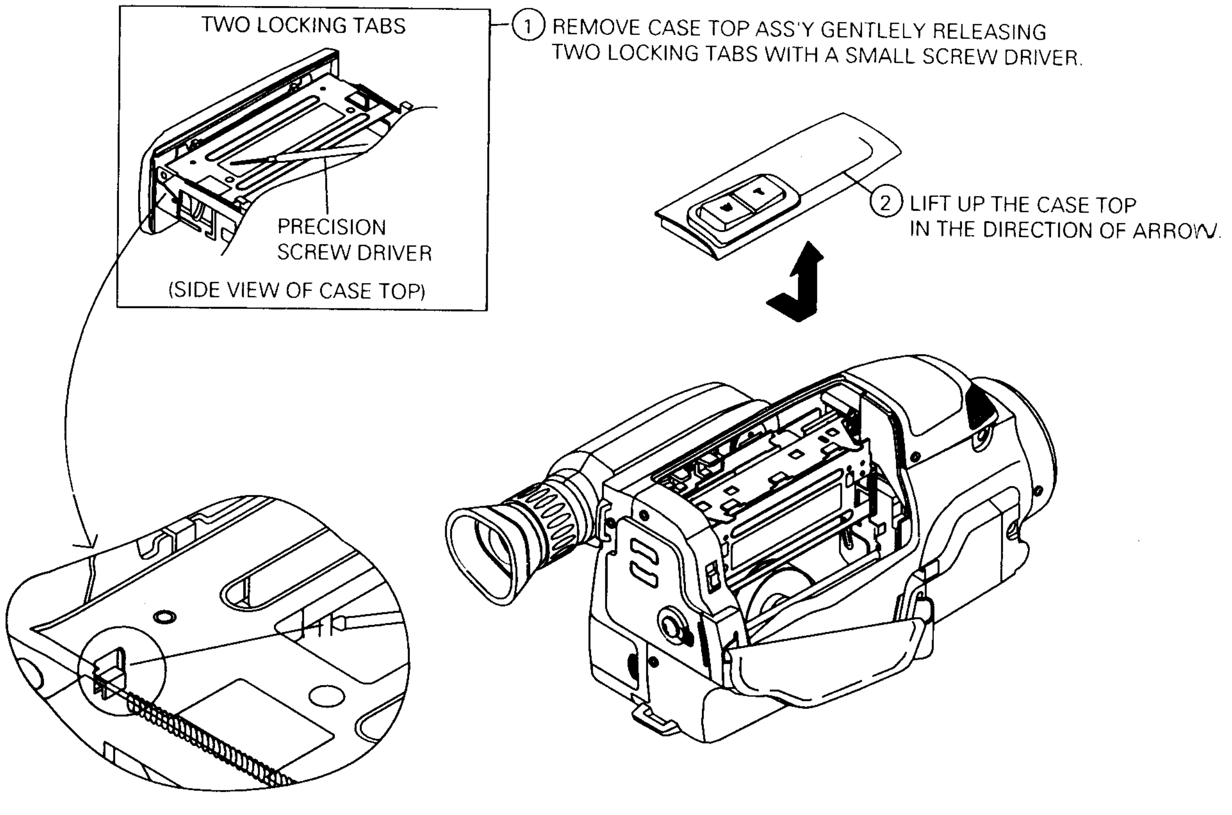


① APPLY POWER AND OPEN BASKET.

② REMOVE 2 SCREWS.
(BH;M1.7X5)

③ REMOVE THE COVER HOUSING ASS'Y
IN THE DIRECTION OF ARROW.

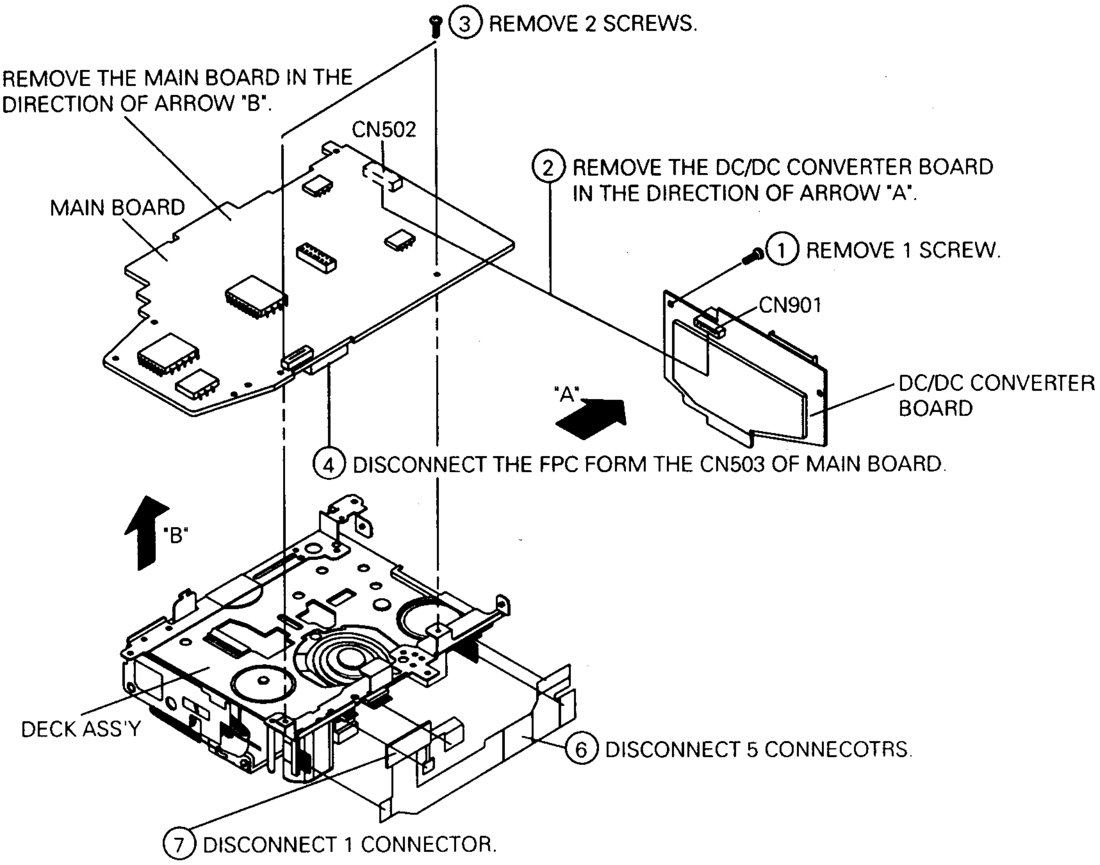
4-1-2 Case Top Ass'y Removal


TWO LOCKING TABS
PRECISION SCREW DRIVER
(SIDE VIEW OF CASE TOP)

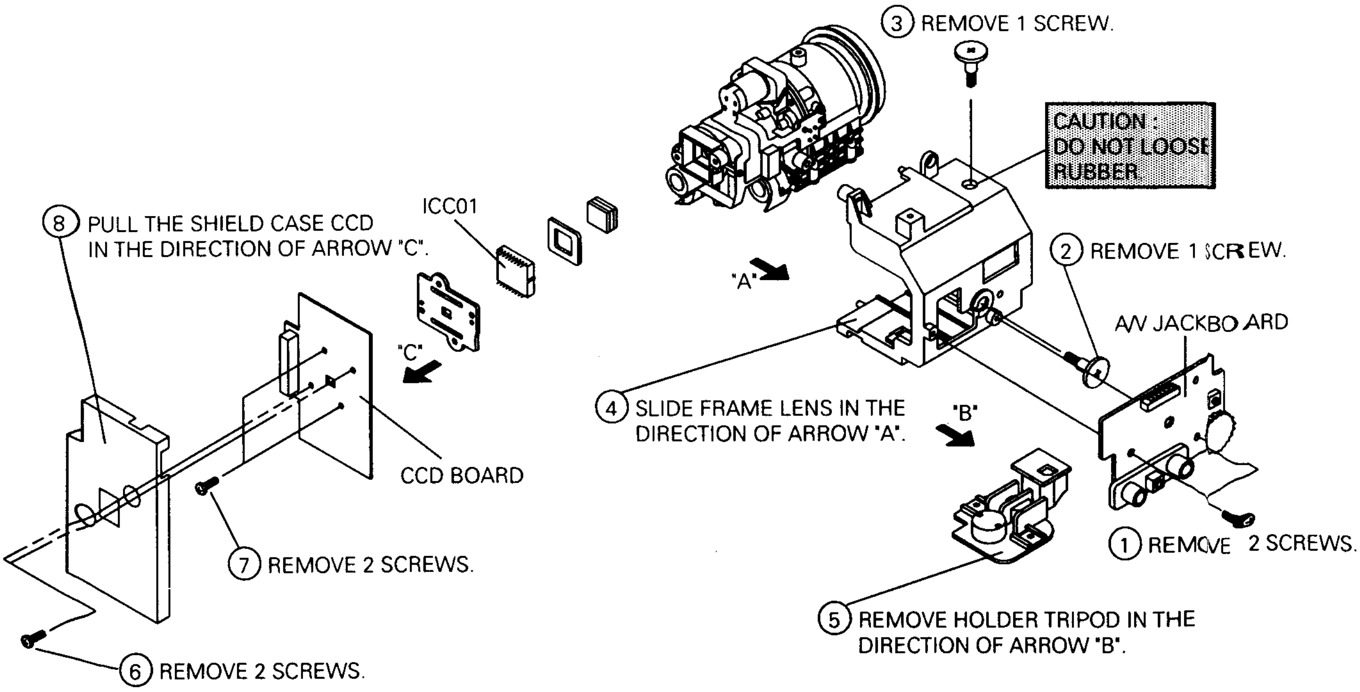
① REMOVE CASE TOP ASS'Y GENTLELY RELEASING
TWO LOCKING TABS WITH A SMALL SCREW DRIVER.

② LIFT UP THE CASE TOP
IN THE DIRECTION OF ARROW.

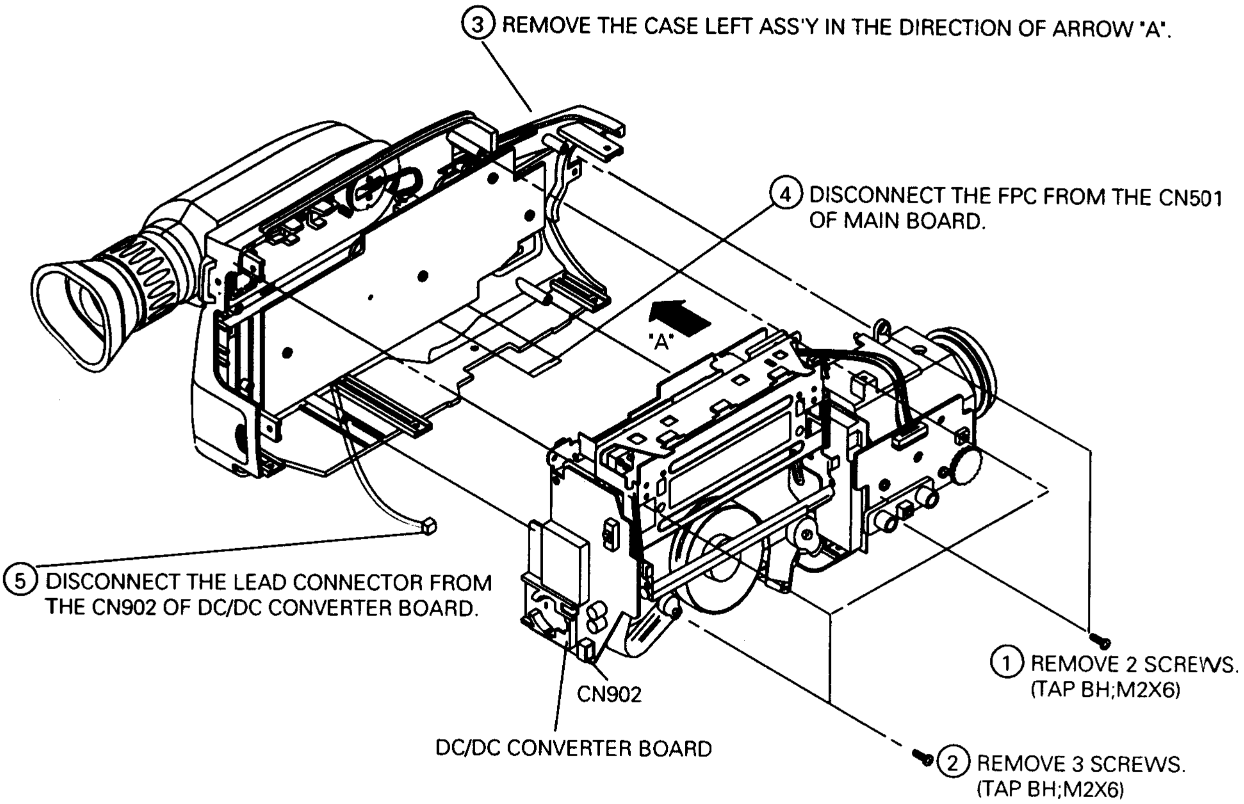
4-1-7 VCR Block Removal


③ REMOVE 2 SCREWS.
⑤ REMOVE THE MAIN BOARD IN THE DIRECTION OF ARROW "B".
CN502
MAIN BOARD
② REMOVE THE DC/DC CONVERTER BOARD IN THE DIRECTION OF ARROW "A".
① REMOVE 1 SCREW.
CN901
"A"
DC/DC CONVERTER BOARD
④ DISCONNECT THE FPC FORM THE CN503 OF MAIN BOARD.
"B"
DECK ASS'Y
⑥ DISCONNECT 5 CONNECOTRS.
⑦ DISCONNECT 1 CONNECTOR.

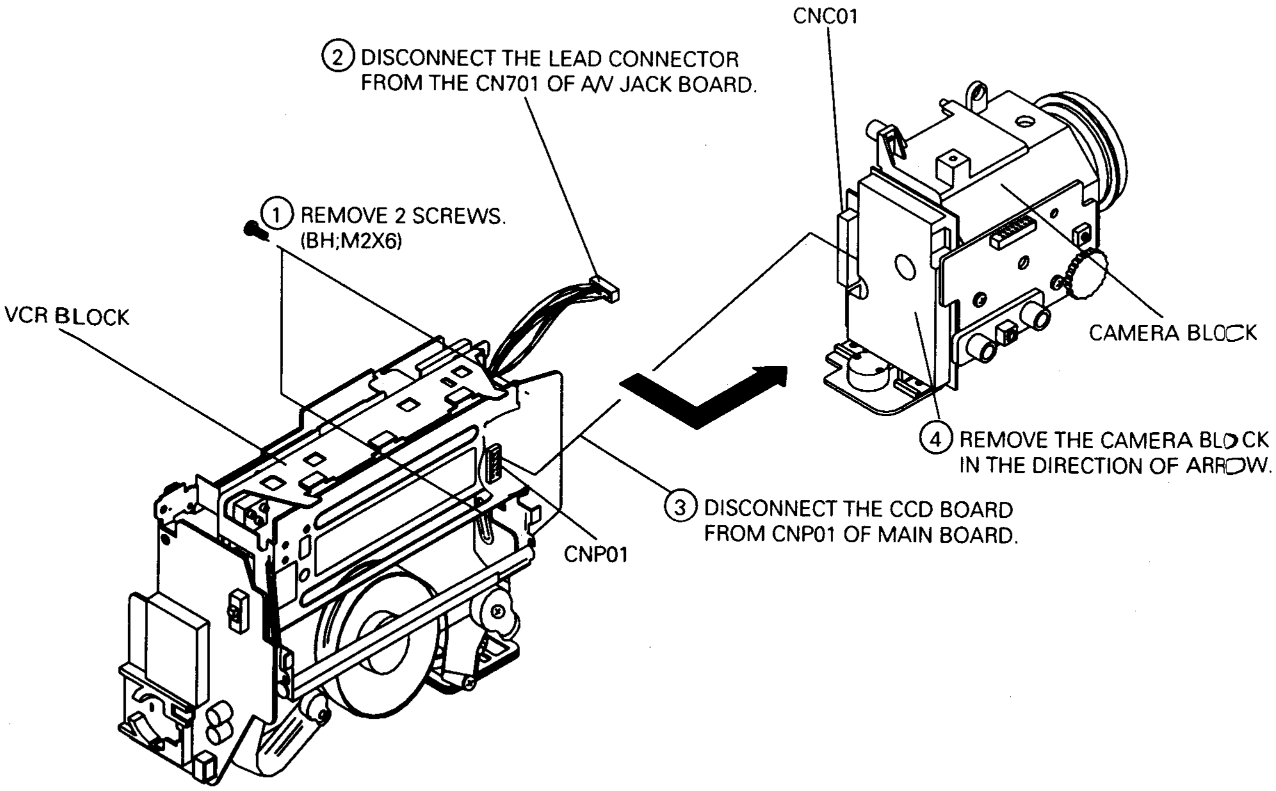
4-1-8 Camera Block Removal


③ REMOVE 1 SCREW.
CAUTION : DO NOT LOOSE RUBBER
⑧ PULL THE SHIELD CASE CCD IN THE DIRECTION OF ARROW "C".
ICC01
"A"
② REMOVE 1 SCREW.
A/V JACKBOARD
"C"
④ SLIDE FRAME LENS IN THE DIRECTION OF ARROW "A".
"B"
CCD BOARD
① REMOVE 2 SCREWS.
⑦ REMOVE 2 SCREWS.
⑤ REMOVE HOLDER TRIPOD IN THE DIRECTION OF ARROW "B".
⑥ REMOVE 2 SCREWS.

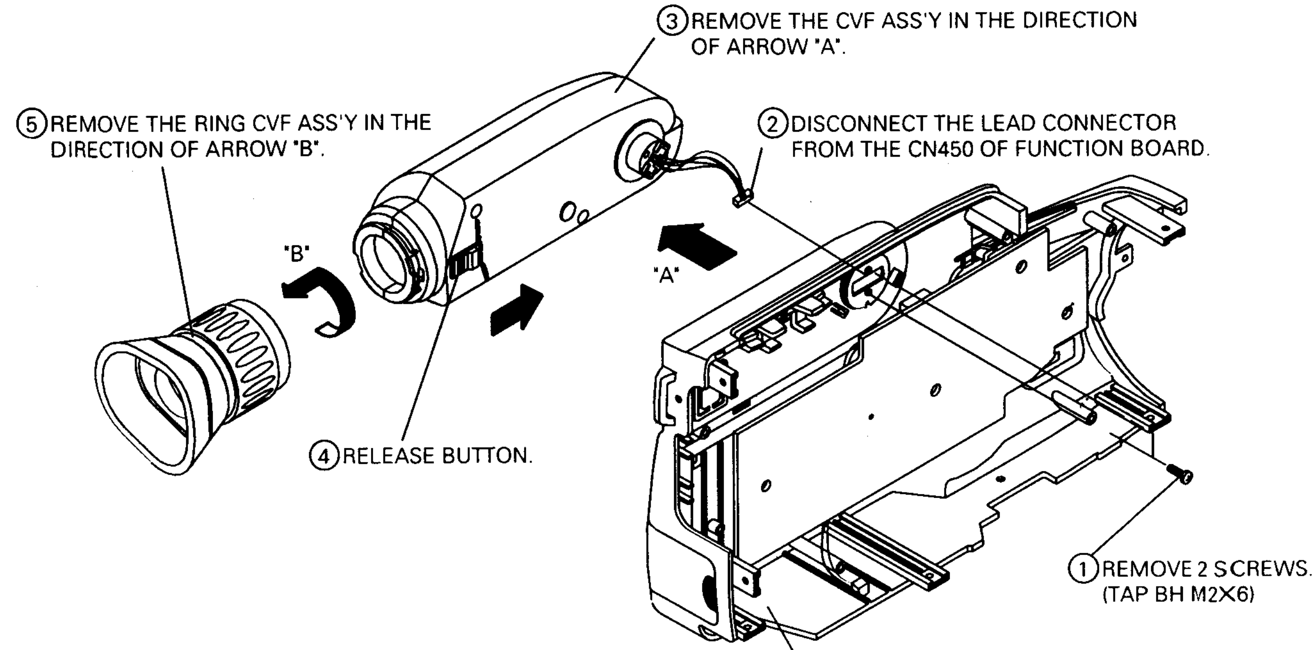
4-1-5 Case Left Ass'y Removal


③ REMOVE THE CASE LEFT ASS'Y IN THE DIRECTION OF ARROW "A".
④ DISCONNECT THE FPC FROM THE CN501 OF MAIN BOARD.
"A"
⑤ DISCONNECT THE LEAD CONNECTOR FROM THE CN902 OF DC/DC CONVERTER BOARD.
CN902
DC/DC CONVERTER BOARD
① REMOVE 2 SCREWS. (TAP BH;M2X6)
② REMOVE 3 SCREWS. (TAP BH;M2X6)

4-1-6 VCR and Camera Block Removal


CNC01
② DISCONNECT THE LEAD CONNECTOR FROM THE CN701 OF A/V JACK BOARD.
① REMOVE 2 SCREWS. (BH;M2X6)
VCR BLOCK
CAMERA BLOCK
④ REMOVE THE CAMERA BLOCK IN THE DIRECTION OF ARROW.
③ DISCONNECT THE CCD BOARD FROM CNP01 OF MAIN BOARD.
CNP01

4-1-10 CVF Ass'y Removal



① REMOVE 2 SCREWS.
(TAP BH M2X6)

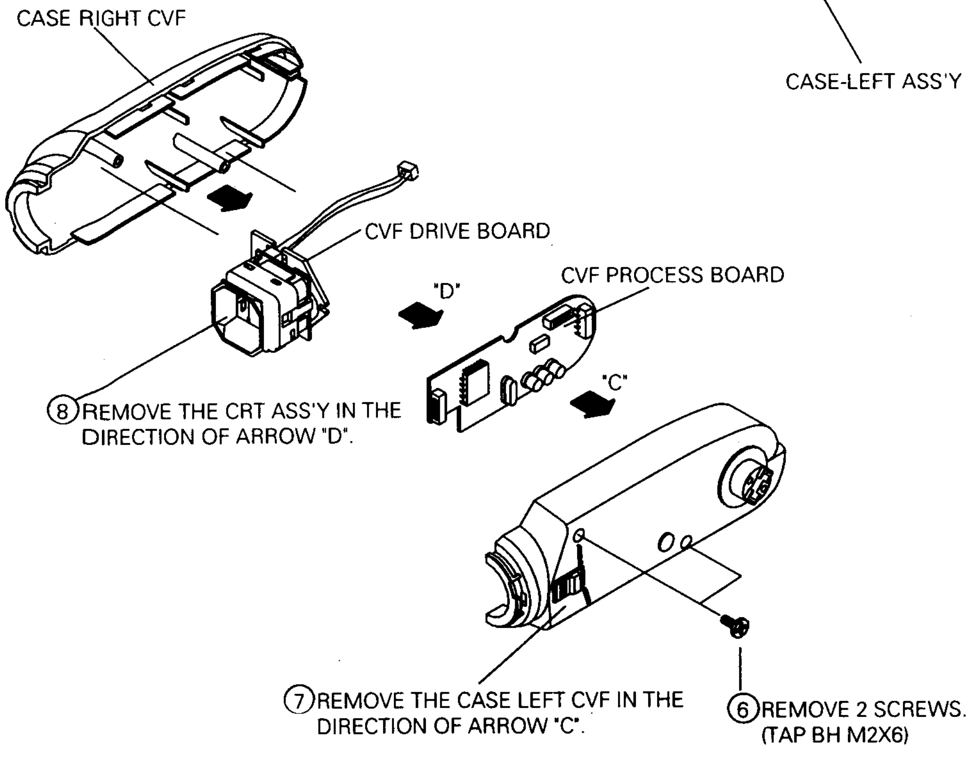
② DISCONNECT THE LEAD CONNECTOR FROM THE CN450 OF FUNCTION BOARD.

③ REMOVE THE CVF ASS'Y IN THE DIRECTION OF ARROW "A".

④ RELEASE BUTTON.

⑤ REMOVE THE RING CVF ASS'Y IN THE DIRECTION OF ARROW "B".

"A"
"B"
CASE-LEFT ASS'Y



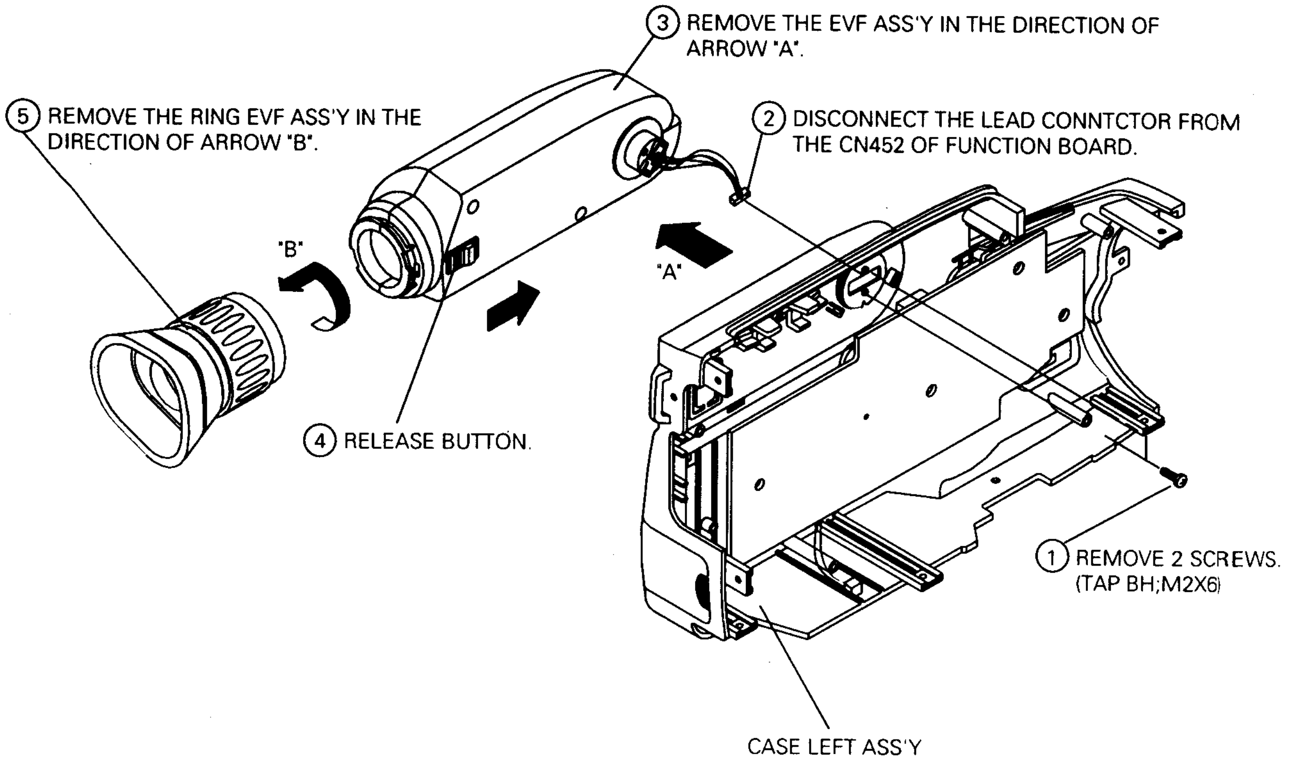
⑥ REMOVE 2 SCREWS.
(TAP BH M2X6)

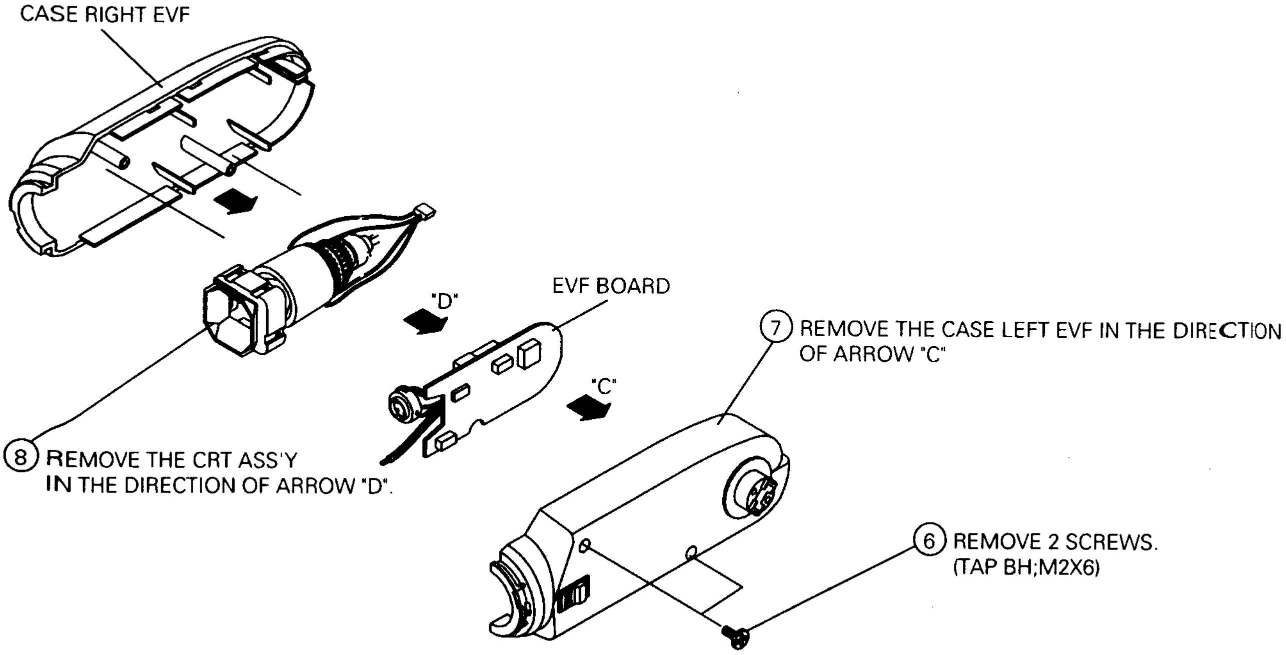
⑦ REMOVE THE CASE LEFT CVF IN THE DIRECTION OF ARROW "C".

⑧ REMOVE THE CRT ASS'Y IN THE DIRECTION OF ARROW "D".

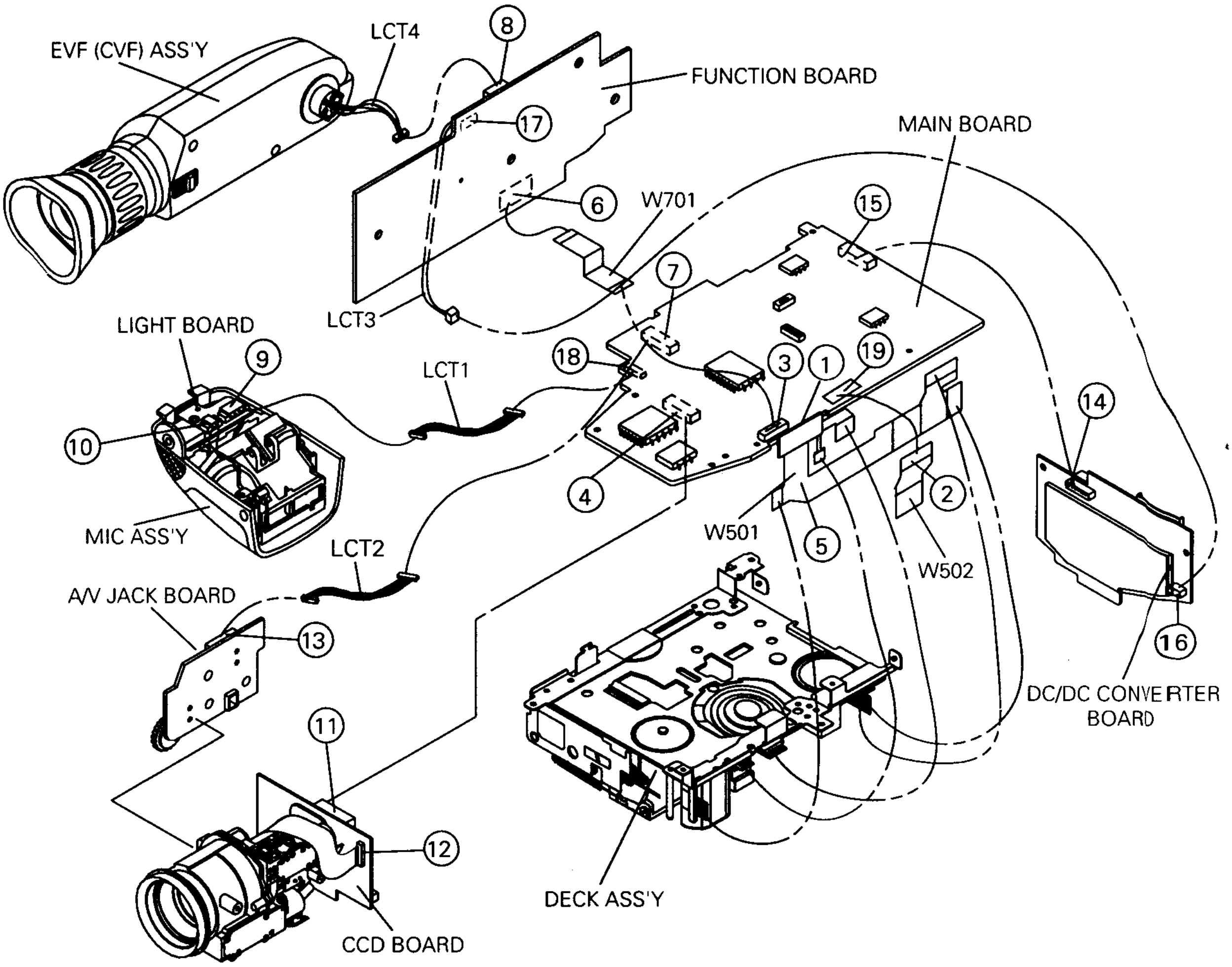
CASE RIGHT CVF
CVF DRIVE BOARD
CVF PROCESS BOARD
"C"
"D"

4-1-9 EVF Ass'y Removal


③ REMOVE THE EVF ASS'Y IN THE DIRECTION OF ARROW "A".
⑤ REMOVE THE RING EVF ASS'Y IN THE DIRECTION OF ARROW "B".
② DISCONNECT THE LEAD CONNTCTOR FROM THE CN452 OF FUNCTION BOARD.
"B"
"A"
④ RELEASE BUTTON.
① REMOVE 2 SCREWS. (TAP BH;M2X6)
CASE LEFT ASS'Y

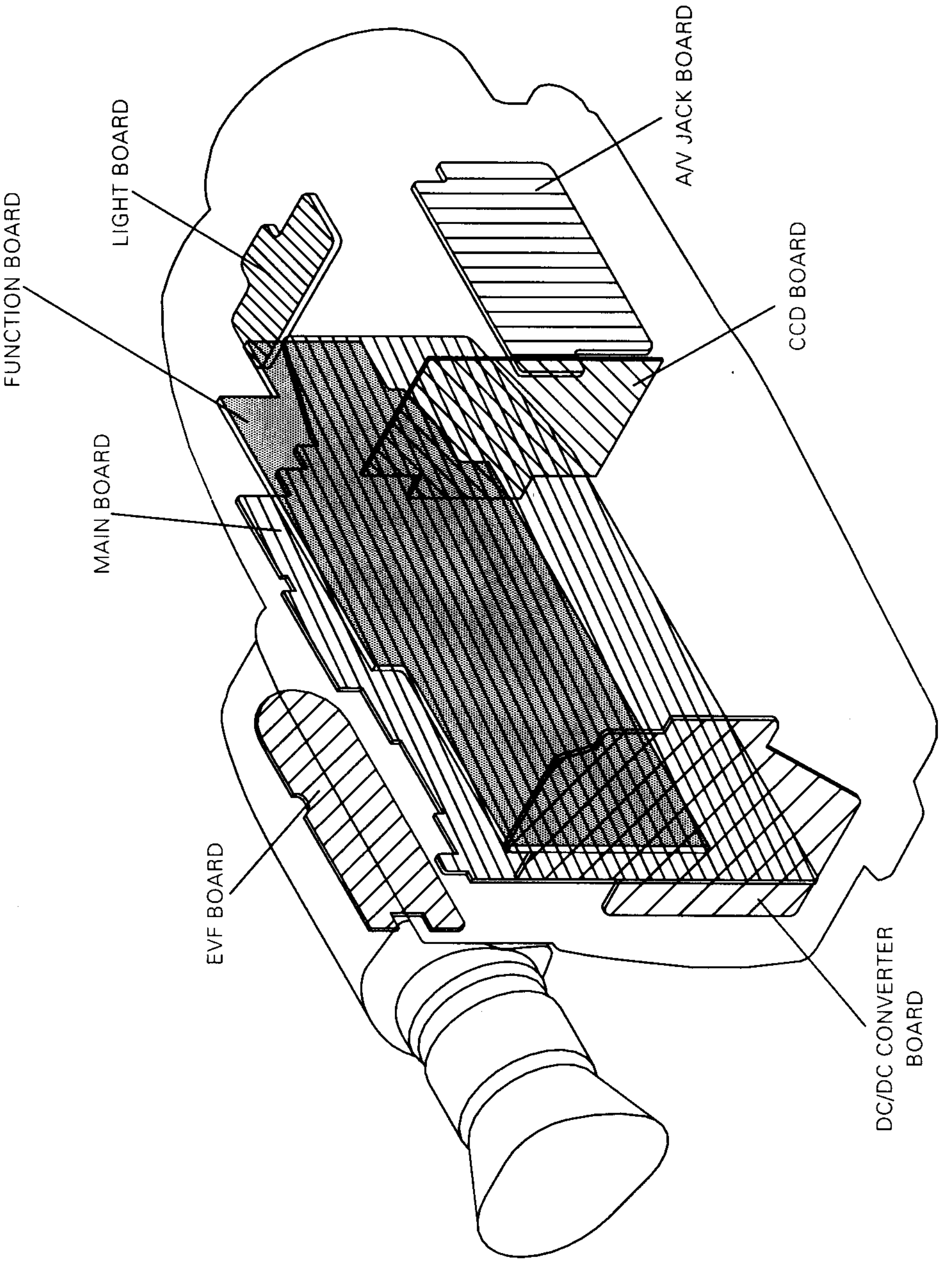

CASE RIGHT EVF
EVF BOARD
"D"
⑦ REMOVE THE CASE LEFT EVF IN THE DIRECTION OF ARROW "C"
"C"
⑧ REMOVE THE CRT ASS'Y IN THE DIRECTION OF ARROW "D".
⑥ REMOVE 2 SCREWS. (TAP BH;M2X6)

4-3 Connector Diagram


EVF (CVF) ASS'Y
LCT4
⑧
FUNCTION BOARD
⑰
MAIN BOARD
⑥
W701
⑮
⑦
LIGHT BOARD
LCT3
⑨
LCT1
⑱
③
①
⑲
⑭
⑩
④
②
MIC ASS'Y
W501
⑤
W502
LCT2
A/V JACK BOARD
⑬
⑯
DC/DC CONVERTER BOARD
⑪
⑫
DECK ASS'Y
CCD BOARD

NO	CONN.WAFER LOCA-NO	DIRECTION	CONN.WAFER LOCA-NO
1	CN503	TO DECK ASS'Y	W501
2	W502	TO MAIN BOARD	CN101
3	CN501	W701 → TO FUNCTION BOARD	CN451
4	CNP01	TO CCD BOARD	CNC01
5	W501	TO MAIN BOARD	CN503
6	CN451	W701 → TO MAIN BOARD	CN501
7	CN201	LCT2 → TO A/V JACK BOARD	CN701
8	CN452	LCT4 → TO EVF ASS'Y	-
9	CN871	LCT1 → TO MAIN BOARD	CN801
10	CN872	TO MIC ASS'Y	-
11	CNC01	FROM MAIN BOARD	CNP01
12	CNC02	TO ASS'Y ZOOM LENS	-
13	CN701	LCT2 → FROM MAIN BOARD	CN201
14	CN901	TO MAIN BOARD	CN502
15	CN502	FROM DC/DC CONVERTER BOARD	CN901
16	CN902	LCT3 → TO FUCNTION BOARD	CN453
17	CN453	LCT3 → TO DC/DC CONVERTER BOARD	CN902
18	CN801	LCT1 → FROM LIGHT BOARD	CN871
19	CN101	TO DECK ASS'Y	W502

4-2 Circuit Boards Location


FUNCTION BOARD
LIGHT BOARD
MAIN BOARD
EVF BOARD
A/V JACK BOARD
CCD BOARD
DC/DC CONVERTER BOARD

5. Alignment and Adjustment

5-1 Mechanical Adjustment

1. Refer to mechanical manual "DE-6 (AD68-30200A)" for the adjustment and checks of mechanism section.

2. The location of test point.

Test Point :
PB RF - Pin 23 of CTP501
Head Switching Trigger - Pin 19 of CTP501

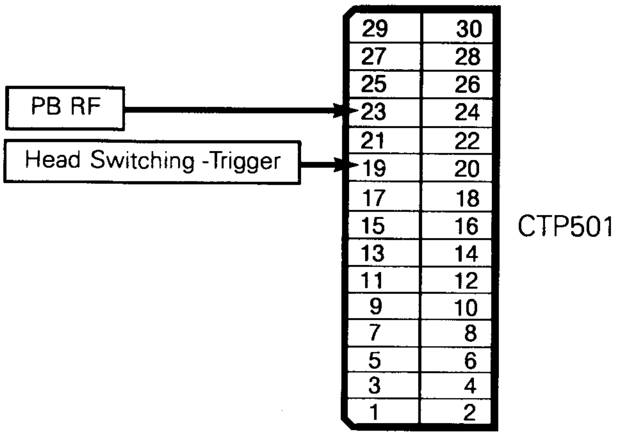
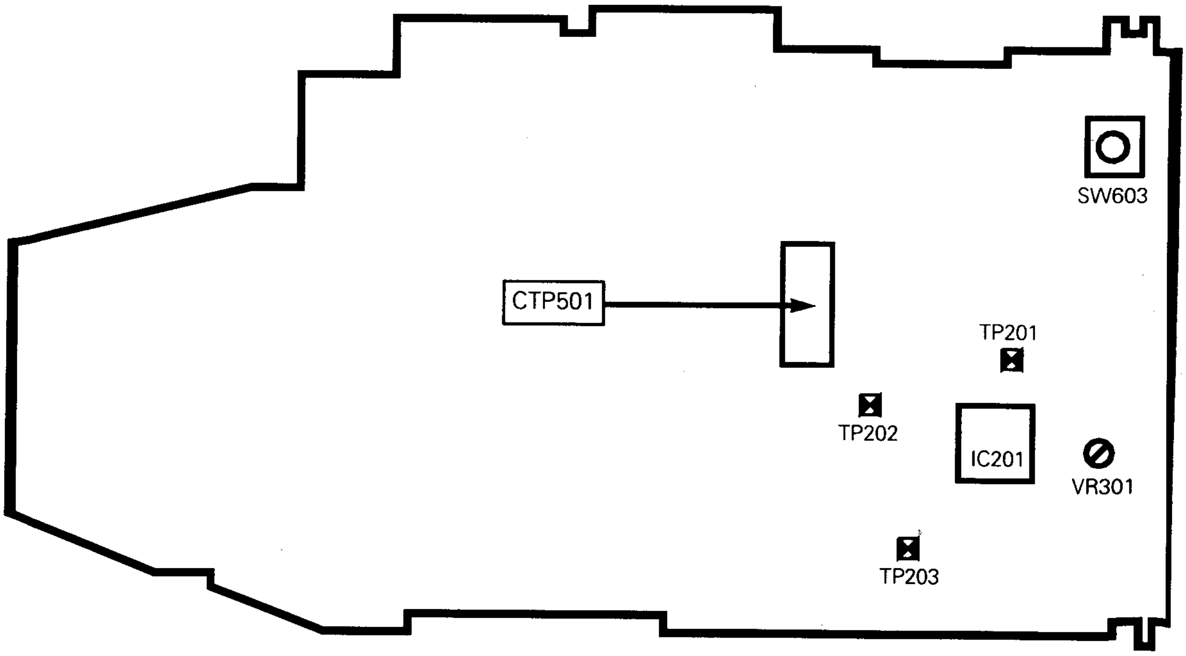

29
30
27
28
25
26
PB RF
23
24
21
22
Head Switching -Trigger
19
20
17
18
15
16
CTP501
13
14
11
12
9
10
7
8
5
6
3
4
1
2

Fig. 1


SW603
CTP501
TP201
TP202
IC201
VR301
TP203

Main PCB (Component side)

Fig. 2 The location of test point

5-2 Camera Section Adjustment

Notes :

1. This camera system uses
   1) EVR (Electronic Variable Resistor) control method by D/A converter (instead of VR control).
   2) EEPROM to store the confirmed adjustment data.
   3) DSP (Digital Signal Process : ICP01 - Main board). This chip process the camera signal.
   4) One test point for frequency adjustment of the DSP main clock (P. CLK).
   5) Special mode for camera adjustment using remote control card.
   6) Readjustment is needed when the DC/DC board is removed from Main board.
   7) Readjustment is needed when the EEPROM (ICA02 of Main board) is replaced. (The EEPROM stores confirmed adjustment values for each adjustment step.)
   8) Except DC/DC board, all adjustment steps of the VCR section should be performed using the remote control card.
   9) Since OSD is appears not on the TV screen but on EVF, perform the adjustment using the EVF.
   10) Be sure to perform the adjustment under installing camera assy with the unit because remote module is on MF board.

5-2-1 Preparation

1. Equipment :

1) DC Power supply
2) Oscilloscope
3) Frequency counter
4) Vectorscope
5) Waveform monitor
6) Color monitor or TV
7) Various charts
   - Color bar chart
   - Gray-scale chart, etc...
8) Alignment tape (Lion pattern)
9) Remote control card

2. Composition of camera PCBoards

1) Main PCB 2) CCD PCB
4) EVF PCB (VP-K80)
5) CVF PCB (VP-K85)

3. Adjustment preparation

1) Remote control card is used as a camera adjust tool.
2) Press the confirm button when each manual adjustment step is completed to write the adjustment data to the EEPROM.
3) After each adjustment step is completed, OSD shows "OK".
4) To cancel the adjustment mode, remove the power source.

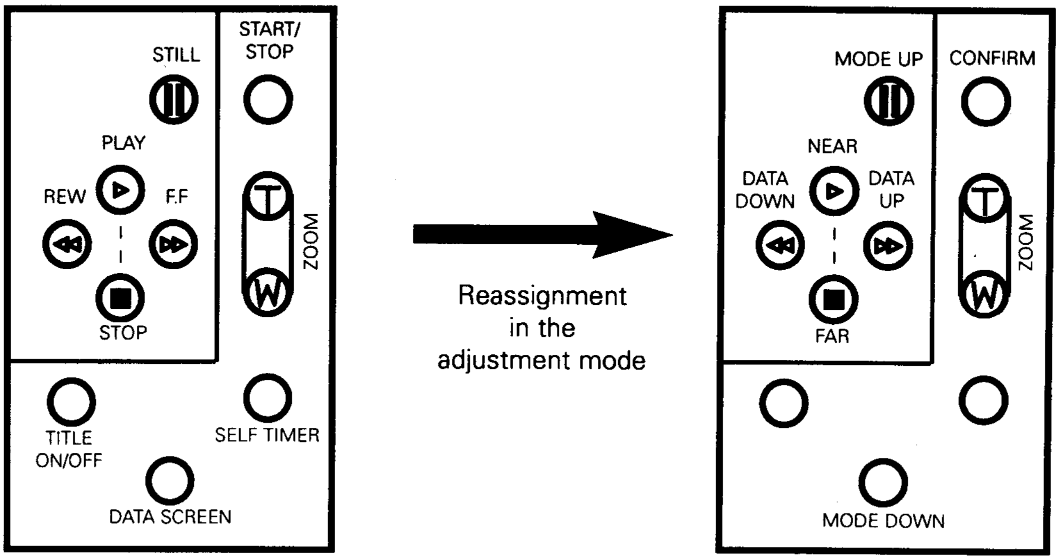
4. Remote Control Operation :

Using Button	Adjustment
START/STOP(CONFIRM)	Data store after finishing adjustment by DATA UP/DOWN button.
REW (DATA DOWN) FF (DATA UP)	When changing data value of adjust state.
STILL (MODE UP) DATA SCREEN (MODE DOWN)	Mode change.
STOP (FAR) PLAY (NEAR)	Focus adjustment.
ZOOM (WIDE) (TELE)	Used for manual focus adjustment.

The accessory Remote-Control Card (Part Number : AD59-10001C) is used to control the camcorder. It is also used for adjustment of the camera section.

Remote for camcorder
Adjust for jig (Part No. : AD59-10001C)

Button placement when remote is
used for service adjustment.

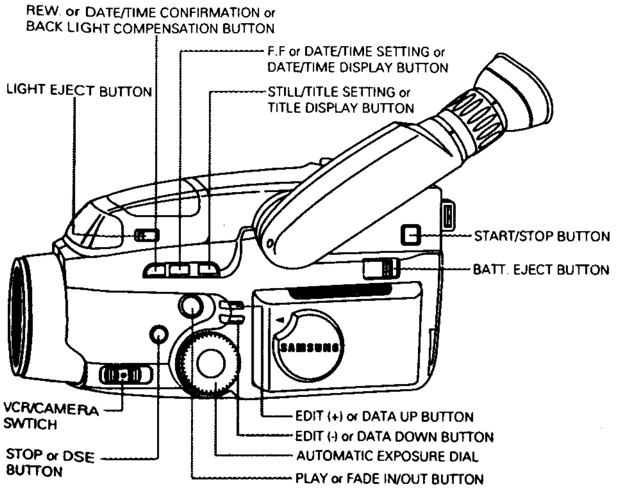

START/
STOP
STILL
PLAY
REW
F.F
T
W
ZOOM
STOP
TITLE
ON/OFF
SELF TIMER
DATA SCREEN
Reassignment
in the
adjustment mode
MODE UP
CONFIRM
NEAR
DATA
DOWN
DATA
UP
T
W
ZOOM
FAR
MODE DOWN

Note : In service adjustment mode, button names are differ from those in customer camera function control mode. EX : "START/STOP" button is the same as "CONFIRM".

5. Service **"ADJUST"** mode

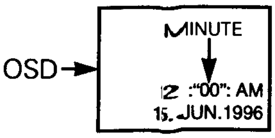
STEP 1

1. Remove the lithium battery from the camcorder.
2. Connect the power source (battery/ DC cable).
3. Eject the tape if it is in the unit.
4. Set the power switch of the camcorder to "CAMERA" position.
5. Set OSD on state.


REW or DATE/TIME CONFIRMATION or BACK LIGHT COMPENSATION BUTTON
F.F or DATE/TIME SETTING or DATE/TIME DISPLAY BUTTON
LIGHT EJECT BUTTON
STILL/TITLE SETTING or TITLE DISPLAY BUTTON
START/STOP BUTTON
BATT. EJECT BUTTON
SAMSUNG
VCR/CAMERA SWITCH
STOP or DSE BUTTON
EDIT (+) or DATA UP BUTTON
EDIT (-) or DATA DOWN BUTTON
AUTOMATIC EXPOSURE DIAL
PLAY or FADE IN/OUT BUTTON

STEP 2

1. Press and hold "DATE" button on comcorder for more than 3 seconds, then it goes into "CLOCK SET" mode. One of the digits will blink.
2. Press the "BLC" button on the camcorder so blinks "00" on the screen.
3. Rotate the PROGRAM AE knob on the camcorder utill "HIGH SPEED" shows on the screen.
4. Press and hold the "C.RESET" button and "FADE" button on the camcorder at the same time more than 3 seconds. Then unit goes into service mode "ADJUST?" blinks on the screen. This indicates that you ready to adjust any electronic variable resistors.


OSD
MINUTE
12 :"00": AM
15. JUN.1996

STEP 3

"ADJUST ?" Will blink at the center of screen.
Now press "START/STOP" button of remote control.

When the on screen display shows "54 A.HAL 00 00" CAMERA ADJUSTMENT mode has successfully been activated.

Note : "XX XX" indicates variable values.

6. Initial data (camera adjustment)

During camera adjustment, the OSD displays the following :

Example) " 00 XXXX XX XX "

Note : "Data 1" is previous setting in memory, "Data 2" is cuarent adjustment setting (changes during adjustment mode). After pressing "START/STOP (Confirm)", it is stored in memory.

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
54	A. HAL	A. HAL	AUTO HALL ADJ.	00	00
52	A. IRE	A. IRE	AUTO IRIS ADJ.	00	00
53	A. AGC	A. AGC	AUTO AGC ADJ.	00	00
55	A. W/B	A. W/B	AUTO WHITE BALANCE ADJ.	00	00
56	A. LEN	A. LEN	AUTO ZOOM TRACK ADJ.	00	00
00	Y. GAM	Y. GAM	Y GAMMA	88	88
01				FF	FF
02	IRE. R	IRE. R	IRIS CONTROL	A0	A0
03	AGC. 1	AGC. 1	AGC CONTROL 1.	40	40
04	AGC. 2	AGC. 2	AGC CONTROL 2.	00	00
05				FF	FF
06	HAL. G	HAL. G	HALL GAIN CONTROL	6F	6F
07	P. H. R	P. H. R	PEAK HOLD REFERENCE	00	00
08				FF	FF
09	HAL. R	HAL. R	HALL REF. CONTROL	82	82
0A				00	00
0B	BST	BST	DSP STATUS REG.	00	00
0C	DADR	DADR	RAM ADDRESS REG.	00	00
0D	DMDL	DMDL	RAM DATA LOW BYTE	00	00
0E	DMDH	DMDH	RAM DATA HIGH BYTE	00	00
0F	DCMD	DCMD	DM COMMAND REG.	04	04
10	DDIS	DDIS	DIS COMMAND	00	00
11	COV1	COV1	AUTO KNEE COEF. 1	00	00
12	COV2	COV2	AUTO KNEE COEF. 2	68	68
13	CAG	CAG	APERTURE GAIN CONTROL	C0	C0
14	CCOA	CCOA	COLOR SEPERATION COEF. 1	21	21
15	CCOB	CCOB	COLOR SEPERATION COEF. 2	33	33
16	CAKP	CAKP	AUTO KNEE POINT	D0	D0
17	CNSL	CNSL	NOISE SLICE LEVEL	02	02
18	CAPS	CAPS	EDGE CHROMA GAIN	04	04
19	CRCO	CRCO	CCR GAIN	38	38
1A	CBCO	CBCO	CCB GAIN	38	38
1B	CGCO	CGCO	YL GAIN	80	80
1C	CUTH	CUTH	S/I LOW THRESHOLD	0B	0B
1D	CLTH	CLTH	S/I HIGH THRESHOLD	0B	0B
IE	MRPW	MRPW	R PRE-WHITE BALANCE	48	48
1F	MGPW	MGPW	G PRE-WHITE BALANCE	20	20
20	MBPW	MBPW	B PRE-WHITE BALANCE	50	50
21	MRWB	MRWB	R WHITE BALANCE	36	36
22	MBWB	MBWB	B WHITE BALANCE	70	70
23	MDSCR	MDSCR	DARK SLICE R	04	04
24	MDSCB	MDSCB	DARK SLICE B	FE	FE
25	MDSCG	MDSCG	DARK SLICE G	FA	FA
26	MRHC	MRHC	R-Y HUE	2A	2A
27	MBHC	MBHC	B-Y HUE	00	00
28	MRYG	MRYG	R-Y GAIN	3B	3B
29	MRBG	MRBG	B-Y GAIN	25	25
2A	MA1C	MA1C	MATRIX COEF. A1	B3	B3
2B	MB1C	MB1C	MATRIX COEF. B1	4D	4D
2C	MA2C	MA2C	MATRIX COEF. A2	1C	1C
2D	MB2C	MB2C	MATRIX COEF. B2	E4	E4
45	EHSBY	EHSBY	B-Y BURST CARRIER GAIN	DC	DC
46	EHSRY	EHSRY	R-Y BURST CARRIER GAIN	25	25

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
47	ECFAD	ECFAD	CHROMA FADE CONTROL	40	40
48	EWCLP	EWCLP	WHITE CLIP LEVEL	F0	F0
49	EYFAD	EYFAD	Y FADE CONTROL	80	80
4A	SETUP	SETUP	Y SETUP LEVEL 1	00	00
4B	EBLKL	EBLKL	Y SETUP LEVEL 2	00	00
4C	ECMD0	ECMD0	ENCORDER COMMAND 1	A0	A0
4D	ECMD1	ECMD1	ENCORDER COMMAND 2	04	04
4E	TCMD0	TCMD0	TIMING GEN. COMMAND 1	00	00
4F	TCMD1	TCMD1	TIMING GEN. COMMAND 2	00	00
50				FF	FF
51				FF	FF
52	A. IRE		AUTO IRIS ADJ.	00	00
53	A. AGC		AUTO AGC ADJ.	00	00
54	A. HAL		AUTO HALL ADJ.	00	00
55	A. W/B		AUTO WHITE BALANCE ADJ.	00	00
56	A. LEN		AUTO ZOOM TRACK ADJ.	00	00
57				00	00
58				00	00
59				00	00
5A				00	00
5B				00	00
5C				NO USE	HALL DATA
5D				00	00
5E				00	00
5F				00	00
60				00	00
61	H. G. S	H. G. S	HALL GAIN START VALUE	76	76
62	I. R. S		IRIS REF. START	80	80
63	A. M. S		AGC MAX. START	B8	B8
64				70	70
65	R. I. S		INDOOR R START	38	38
66	B. I. S		INDOOR B START	68	68
67	R. O. S		OUTDOOR R START	4E	4E
68	B. O. S		OUTDOOR B START	45	45
69	A. TGT		IRIS TARGET	68	68
6A	A. T. %		AGC TARGET AEAVR %	30	30
6B				00	00
6C				00	00
6D				00	00
6E				00	00
6F				00	00
70	H. MIN	H. MIN	HALL MIN. VALUE	19	19
71	H. MAX		HALL MAX. VALUE	EF	EF
72	A. S. %		AGC START HALL %	C5	C5
73	A. S. H		AGC START HALL	BD	BD
74				00	00
75				00	00
76				00	00
77				00	00
78	A. MIN		AGC MIN.	50	50
79	A. MAX		AGC MAX.	BF	BF
7A	CFMIN		C FADE MINIMUM	08	08
7B	CFS. A		C FADE START AGC	80	80

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
7C	NSAGC		NOISE SLICE AGC	72	72
7D	BLCON		BLC ON	2A	2A
7E	HSSSH		HSS START HALL	50	50
7F				00	00
80				00	00
81				00	00
82				00	00
83				95	95
84				FF	FF
85	ASAE%			D0	D0
86	YBLSA		EYBLK START AGC	A0	A0
87	YBLKM		EYBLK MAX	00	00
88	Ye. R		MDSCR YELLO	60	60
89	Ye. G		MDSCG YELLO	00	00
8A	Ye. B		MDSCB YELLO	48	48
8B	Sep. R		MDSCR SEPHIA	50	50
8C	Sep. G		MDSCG SEPHIA	00	00
8D	Sep. B		MDSCB SEPHIA	10	10
8E				FF	FF
8F				FF	FF
90	R. I. C	R. I. C	RED INDOOR CONTROL	31	31
91	B. I. C		BLUE INDOOR CONTROL	73	73
92	R. O. C		RED OUTDOOR CONTROL	62	62
93	B. O. C		BLUE OUTDOOR CONTROL	47	47
94	R. I. M		RED INDOOR CONTROL MARGIN	04	04
95	B. I. M		BLUE INDOOR CONTROL MARGIN	08	08
96	R. O. M		RED OUTDOOR COTROL MARGIN	00	00
97	B. O. M		BLUE OUTDOOR CONTROL MARGIN	0A	0A
98	ROS. a		R OUTDOOR START a	82	82
99	BOS. a		B OUTDOOR START a	86	86
9A	R. O. G		R OUTDOOR GAIN	2E	2E
9B	B. O. G		B OUTDOOR GAIN	23	23
9C	R. O. H		R OUTDOOR HUE	3C	3C
9D	B. O. H		B OUTDOOR HUE	30	30
9E	ROG. a		R OUTDOOR GAIN a	0A	0A
9F	BOG. a		B OUTDOOR GAIN a	00	00

Note : "XX XX" indicates variable values.

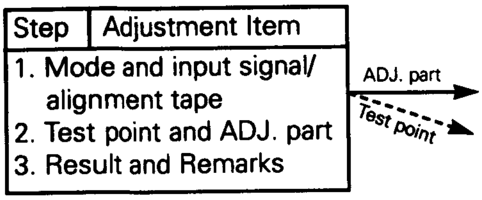
MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
A0	WBTGR	WBTGR	R CONTROL TARGET	98	98
A1	WBTGB		B CONTROL TARGET	68	68
A2	WBTBM		WHITE BALANCE TABLE MODE	80	80
A3	E2D-3C			00	00
A4	-W. AE. AVR			02	02
A5	B. CTL. BUD			30	30
A6	B. RESTOP3			90	90
A7	B. STP. HAL			63	63
A8				00	00
A9				00	00
AA				00	00
AB				00	00
AC				00	00
AD				00	00
AE				00	00
AF				00	00
B0	FPULL	FPULL	FOCUS DISTANCE LOW BYTE	10	10
B1	FPULH		FOCUS DISTANCE HIGH BYTE	11	11
B2	ZPULL		ZOOM DISTANCE LOW BYTE	49	49
B3	ZPULH		ZOOM DISTANCE HIGH BYTE	12	12
B4	ZRWDT		ZOOM PULSE DIFFERENCE	83	83
B5	AFMID		AF2 SUB MIN.	60	60
B6	AFMXL		AF2 SUB MAX. LOW BYTE	80	80
B7	AFMXH		AF2 SUB MAX. HIGH BYTE	00	00
B8	Z. T. C		ZOOM TRACK COMPENSATION	00	00
B9	Z. RAT		ZOOM RAITIO	78	78
BA	ZWPHR		ZOOM DEAK HOLD REFERENCE	50	50
BB				14	14
BC				00	00
BD				00	00
BE				00	00
BF				00	00

<Example of the TV screen>

54	A.HAL	XX	XX
		Data in memory	Data to be adjusted

5-2-2 Camera System Adjustment

Note : From this point forward, the structure of every adjustment is as follows.



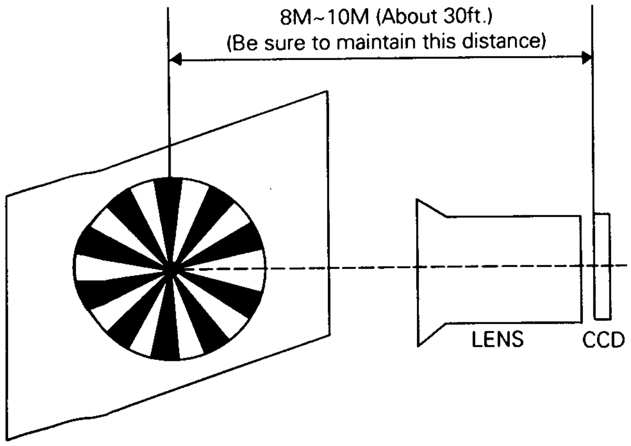
Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	

1. Focus to zoom tracking

Note : To maintain proper focus throughout the zoom range, the focus lens position must be changed as the zoom lens is moved. During this adjustment the microprocessor will measure the focus positioning requirements at the wide and telephoto positions of the zoom lens.

1) Camera "E-E".
2) Focus chart (Attached to the last page of this manual) and EVR.
3) Aim the camera at the focus chart, which should be placed about 30ft. (8 to 10 meters) away and perpendicular to the center of the lens.
   The chart should be placed on a gray or white wall.
4) Connect monitor TV jack to video output jack.
5) Press the "STILL (MODE UP)" and "DATA SCREEN (MODE DOWN)" button, so that the OSD start is "56 A.LEN XX XX".
6) There are 2 ways to do this adjustment :

a. Full auto : Press "START/STOP (CONFIRM)" button for full auto adjustment.
The camera will move both zoom and focus lens. The adjustment is finished when the O.K message appears on the TV screen.



Note : "XX XX" : indicates variable values.

54	A.HAL	XX	XX

b. Manual : Camera lens will be moved to all positions to set maximum focus setting.

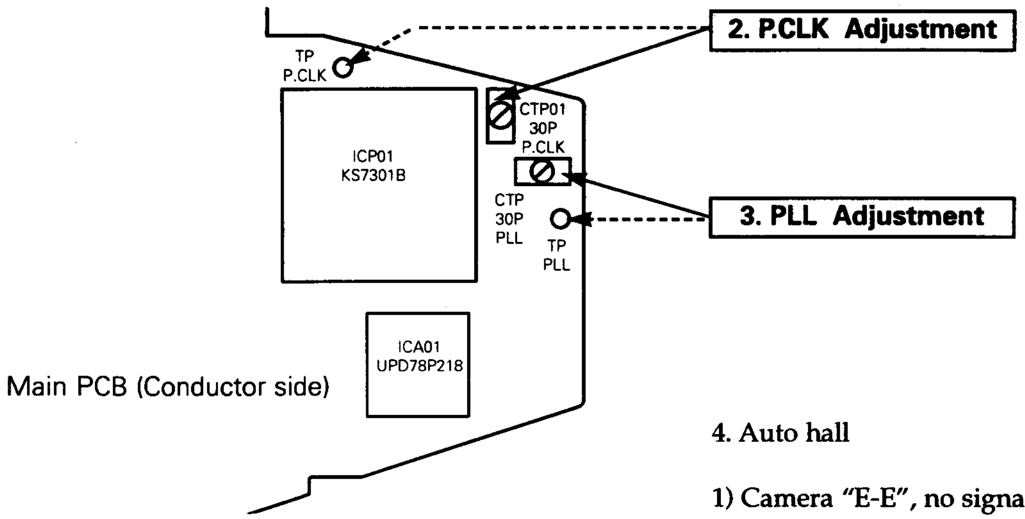
b-1. Manual adjustment : Pressing the "TELE" button.
b-2. Press the "WIDE" button to instruct the microprocessor to adjust the focus lens for optimum focus.
b-3. Press the "START/STOP (CONFIRM)" button. The zoom lens should move to the tele zoom position.
b-4. After the zoom lens reaches the tele zoom position, repeat step b-2.
b-5. Press the "START/STOP (CONFIRM)" button. The zoom lens should move to the middle zoom position.
b-6. After the zoom lens reaches the middle zoom position, if is not optimum repeat step b-2, b-3, b-4 and b-5.
b-7. Press "START/STOP (CONFIRM)" button. The zoom lens should move to the wide zoom position. Try step b-2.
b-8. Press "START/STOP (CONFIRM)" button to instruct the micro processor to write the focus lens positon data to the EEPROM.
The lens will move through the zoom range and the picture will fade out and then back in.
The OSD will display "OK".

2. P. CLK Adjustment

1) "Camera", no signal input.
2) TP P.CLK and CTP01.
3) Connent a frequency counter to TP P.CLK.
4) Adjust CTP01 for 9.5348MHz ± 1KHz.

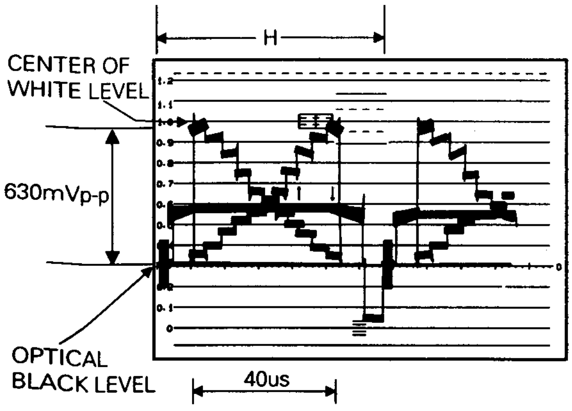
3. PLL Adjustment

1) "Camera", no signal input.
2) TP PLL and CTP02.
3) Connect a frequency counter to TP PLL.
4) Adjust CTP02 for 2.8V ± 0.1V.



5. Auto IRIS level

1) Camera "E-E", 3100°K gray-scale chart.
2) Video output jack and EVR.
3) Connect video output jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "52 A.IRE XX XX".
5) Aim the camera at a gray-scale chart (evenly illuminated at 1500 to 2000 lux - At 40us).
6) Press the "START/STOP (CONFIRM)" button, The microprocesor is enabled :
   - Start IRIS control from the value of mode 62.
   - Find the data, Y level is equal to the A. TGT of mode 69 (630mVp-p ± 10mV).
   - Store the data to mode 02.
7) The OSD shows "O.K".



4. Auto hall

1) Camera "E-E", no signal input.
2) Video output jack and EVR.
3) Connect monitor TV to video output jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "54 A.HAL XX XX".
5) Press "START/STOP (CONFIRM)" button.
6) The microprocessor is enabled :
   a. IRIS closed, FINDS HALL minimum value,
   b. IRIS open, FINDS HALL maximum value,
   c. Store data to mode "09"(HALL REF) by using the a, b.
   d. Store data to mode "06" (HALL GAIN).
   e. After IRIS is closed, confirm the FINDS HALL minimum value.
7) The OSD shows "OK".

6. Auto AGC control

1) Camera "E-E", 3100°K gray-scale chart.
2) Video output jack and EVR.
3) Connect monitor TV to video output jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "53 A.AGC XX XX".
5) Aim the camera at a gray-scale chart (evenly illuminated at 1500 to 2000 lux - At least 40us).
6) Press "START/STOP (CONFIRM)" button.
7) The microprocessor is enabled :
   - Find AGC minimum point data and store to mode 78.
   - Find AGC start point data, and store to mode 73.
8) The OSD shows "OK".

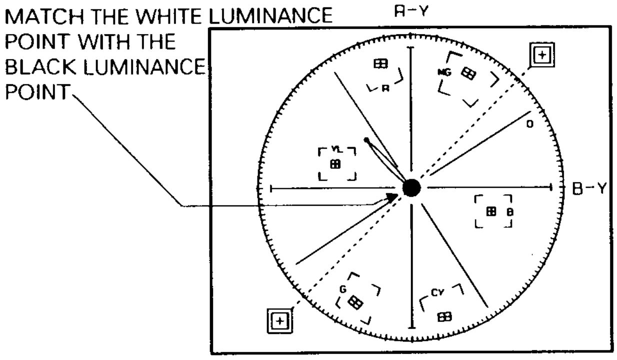
7. Auto white balance

1) Camera "E-E", 3100°K/5100°K gray-scale chart.
2) Video output jack and EVR.
3) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "55 A.W/B XX XX".
4) Connect vectorscope input jack to video output jack.

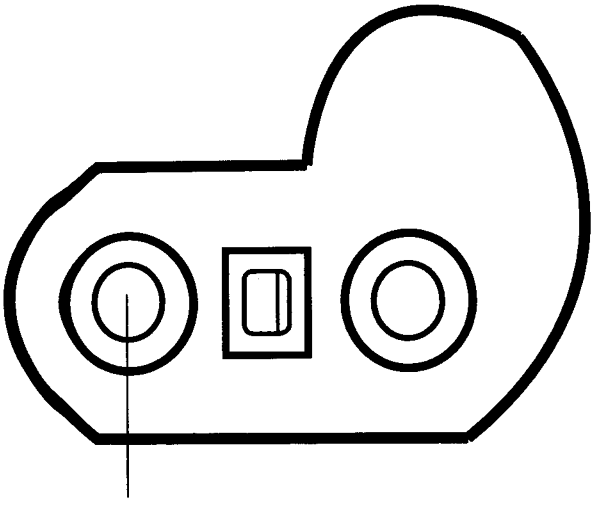
a. W/B Indoor
a-1. Aim the camera at a 3100°K gray-scale chart illuminated at 1500 to 2000 lux. (40us)
a-2. Press "START/STOP (CONFIRM)" button so that the white vector moves to the center on screen of the vectorscope.

b. W/B Outdoor
b-1. Aim the camera at a 5100°K gray-scale chart illuminated at 1500 to 2000 lux. (40us)
b-2. Press "START/STOP (CONFIRM)" button so that the white vector moves to the center on screen of the vectorscope.

5) The OSD shows "OK".

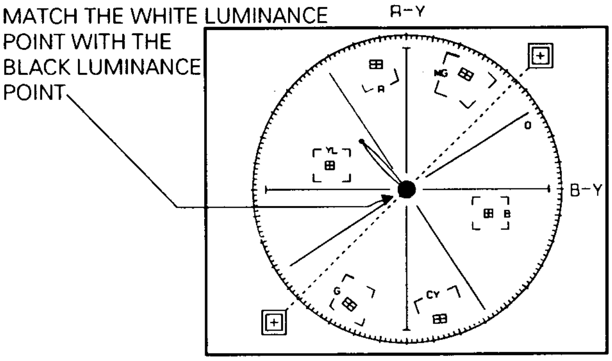

MATCH THE WHITE LUMINANCE POINT WITH THE BLACK LUMINANCE POINT
R-Y
B-Y

(A/V JACK)


VIDEO OUTPUT JACK

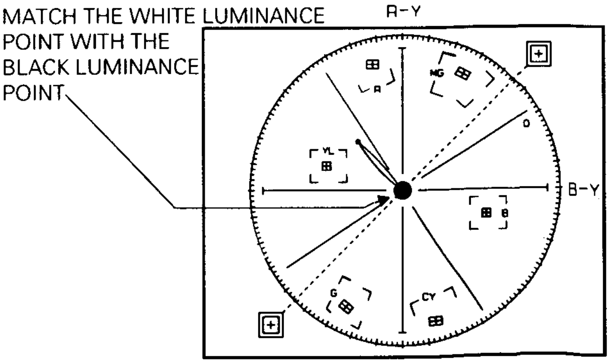
8. Pre white balance (I)

1) Camera "E-E", 3100°K gray-scale chart.
2) Video output jack and EVR.
3) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "21 MRWB XX XX".
4) Connect vectorscope input jack to video output jack.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the while vector moves to the center on screen of the vectorscope.


MATCH THE WHITE LUMINANCE POINT WITH THE BLACK LUMINANCE POINT
R-Y
B-Y

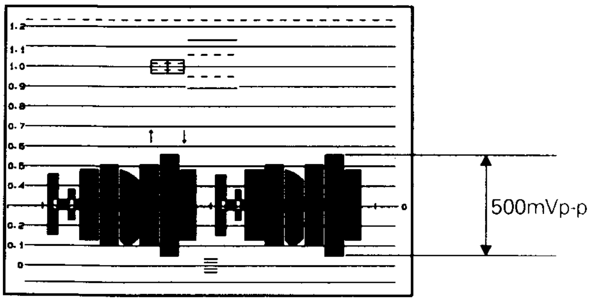
9. Pre white balance (II)

1) Camera "E-E", 3100°K gray-scale chart.
2) Video output jack and EVR.
3) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "22 MBWB XX XX".
4) Connect vectorscope input jack to video output jack.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the while vector moves to the center on screen of the vectorscope.
7) The OSD shows "OK".


MATCH THE WHITE LUMINANCE POINT WITH THE BLACK LUMINANCE POINT
R-Y
B-Y

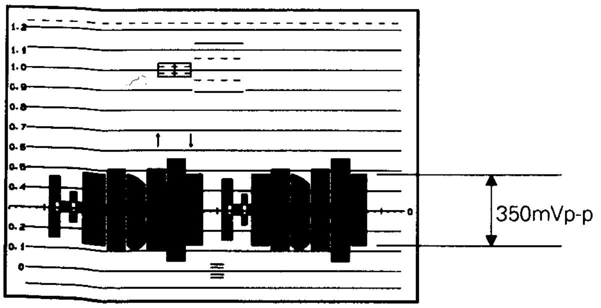
10. R-Y Gain

1) Camera "E-E", 3100°K color bar chart.
2) Video output jack and regiater of EEPROM.
3) Connect video output jack to waveform monitor input jack and monitor TV jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "28 MRYG XX XX".
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the red level is 500mVp-p ± 35mV.
7) Press the "START/STOP (CONFIRM)" button to memorize setting.
8) The OSD shows "OK".



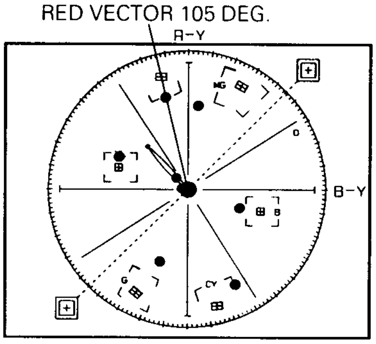
11. B-Y Gain

1) Camera "E-E", 3100°K color bar chart.
2) Video output jack and register of EEPROM.
3) Connect video output jack to waveform monitor input jack and monitor TV jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "29 MRBG XX XX".
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the blue level is 350mVp-p ± 35mV.
7) Be sure to press the "START/STOP (CONFIRM)" button to memorize setting.
8) The OSD shows "OK".



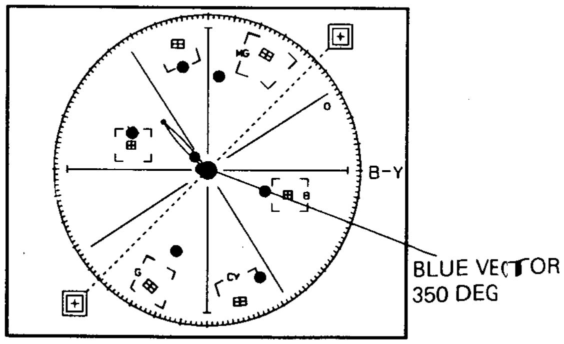
12. R-Y Hue

1) Camera "E-E", 3100°K color bar chart.
2) Video output jack and register of EEPROM.
3) Connect video output jack to vectorscope input jack and monitor TV jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "26 MRHC XX XX".
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the red vector is 105 ± 15 deg.
7) Press the "START/STOP (CONFIRM)" button to memorize setting.
8) The OSD shows "OK".



13. B-Y Hue

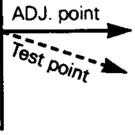
1) Camera "E-E", 3100°K color bar chart.
2) Video output jack and register of EEPROM.
3) Connect video output jack to vectorscope input jack and monitor TV jack.
4) Press the "STILL (MODE UP)/DATA SCREEN (MODE DOWN)" button so that the OSD state is "27 MBHC XX XX".
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lux.
6) Adjust the "FF (DATA UP)/REW (DATA DOWN)" button so that the blue vector is 350 ± 10 deg.
7) Press the "START/STOP (CONFIRM)" button to memorize setting.
8) The OSD shows "OK".



5-2-3 EVF Adjustment (VP-K80)

Note : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1.	Mode and input signal/ alignment tape
2.	Test point and ADJ. part
3.	Result and Remarks



1. AFC

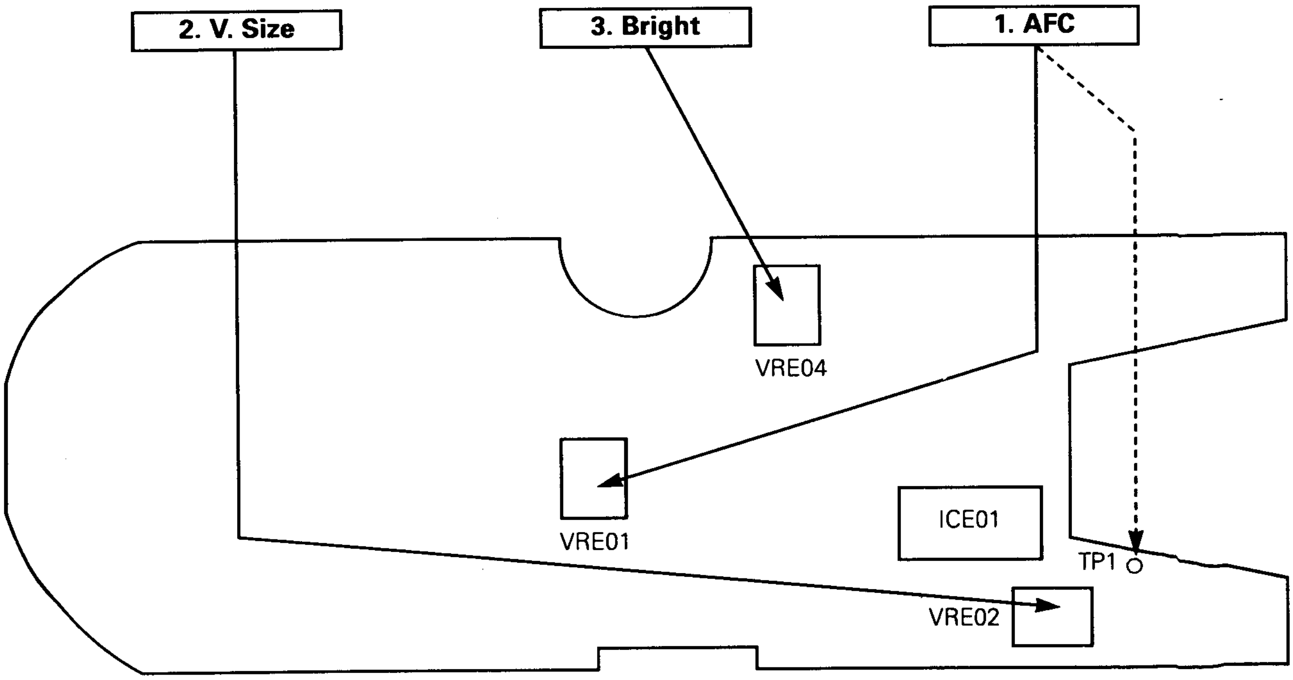
1) VCR "PB", Alignment tape (Lion pattern).
2) TP1 and VRE01.
3) Connect digital voltmeter probe to TP1.
4) Adjust VRE01 so that the voltage is DC 2.5V ± 0.1V.

2. V. Size

1) VCR "PB", Alignment tape (Lion pattern).
2) Viewfinder and VRE02.
3) Adjust VRE02 so that the counter circle on the lion pattern is perfect by round.

3. Bright

1) VCR "PB", Alignment tape (Lion pattern).
2) Viewfinder and VRE04.
3) Adjust the VRE04 so that the 3rd and 4th steps of the lion pattern can be distinguished.

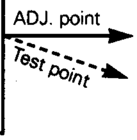


EVF PCB (Component side)

5-2-4 CVF Adjustment (VP-K85)

Note : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	



Note : See page 5-13 for the location of test points and adjustments.

1. 13.5V Voltage

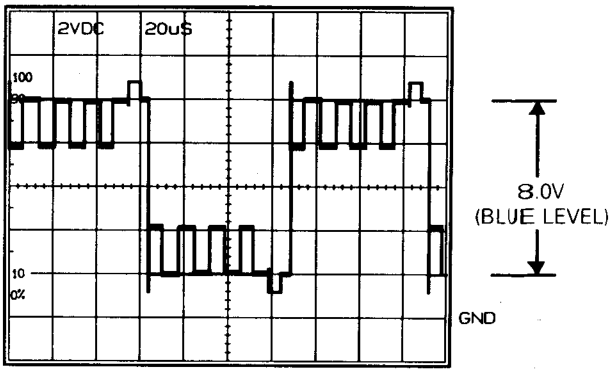
1) VCR "PB", Alignment tape (Color bar : SP).
2) TP1 and VRE04.
3) Connect digital voltmeter probe to TP1.
4) Adjust VRE04 so that the voltage is DC 13.5V ± 0.1V.

2. LCCOM Voltage

1) VCR "PB", Alignment tape (Color bar : SP).
2) TP2 and VRE05.
3) Connect digital voltmeter probe to TP5.
4) Adjust VRE05 so that the voltage is DC 5.6V ± 0.1V.

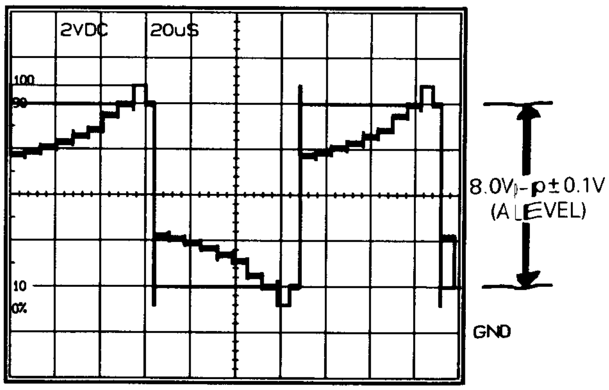
3. Brightness

1) VCR "PB", Alignment tape (Color bar : SP).
2) TP-G OUT and VRE01.
3) Connect on oscilloscope probe to TP-G OUT.
4) Adjust VRE01 so that blue level is 8.0V.



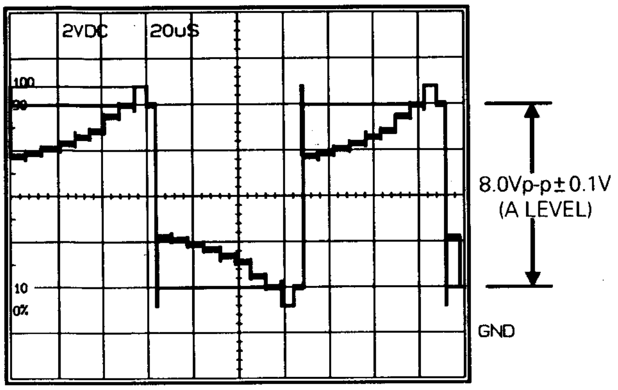
4. R-Sub Bright

1) VCR "PB", Chroma off and Alignment tape (Color bar : SP).
2) TP-R OUT and VRE01.
3) Connect on oscilloscope probe to TP-R OUT.
4) Adjust VRE06 so that A level is 8.0Vp-p.



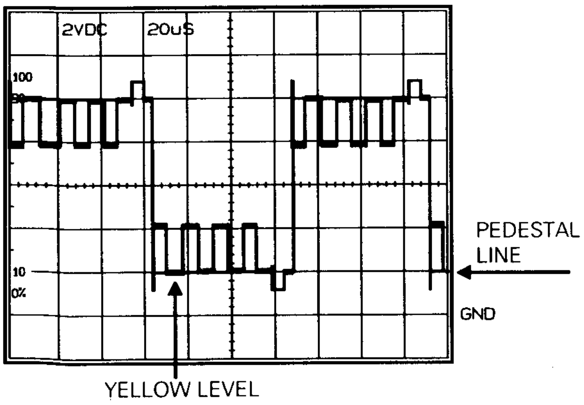
5. B-Sub Bright

1) VCR "PB", Chroma off and Alignment tape (Color bar : SP).
2) TP3(B OUT) and VRE07.
3) Connect on oscilloscope probe to TP3(B OUT).
4) Adjust VRE07 so that A level is 8.0Vp-p.



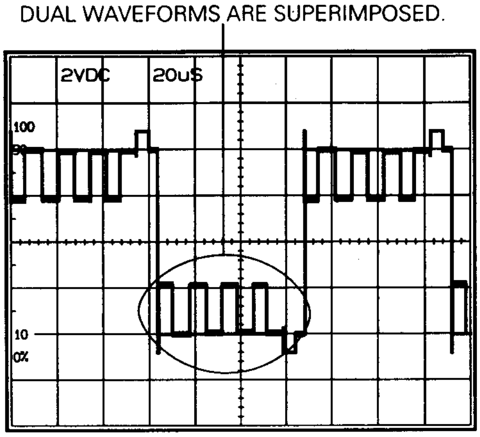
6. Color

1) VCR "PB", Alignment tape (Color bar : SP).
2) TP3 and VRE02.
3) Connect on oscilloscope probe to TP3.
4) Adjust VRE02 so that yellow level is equal to the pedestal line.



7. HUE

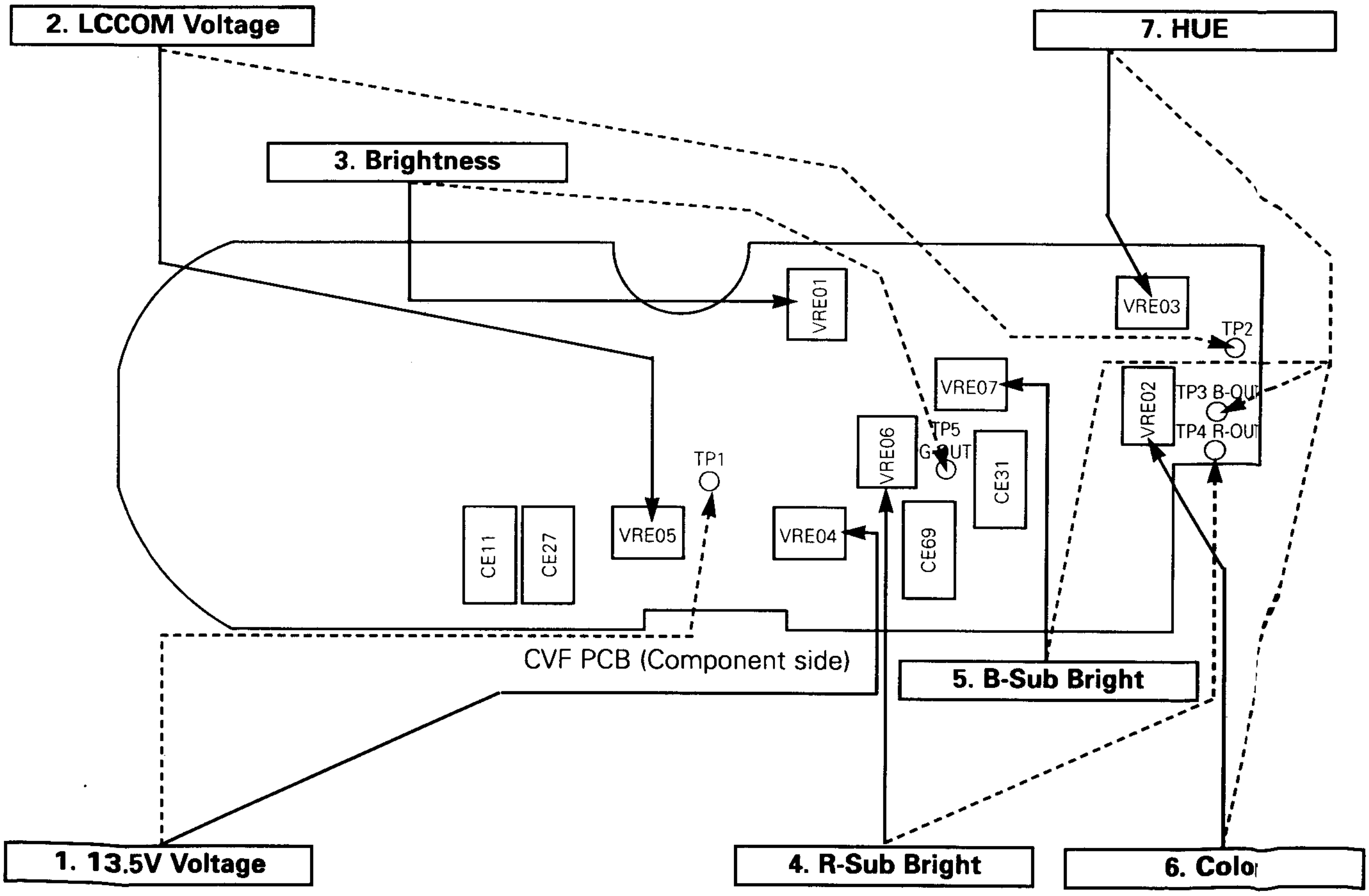
1) VCR "PB", Alignment tape (Color bar : SP).
2) TP3 and VRE03.
3) Connect on oscilloscope probe to TP3.
4) Adjust VRE03 so that dual waveforms are superimposed.



◆ Test point and adjustment points :

Adj. No.	Adjustment name	Test point	Adjustment point
1	LCCOM Voltage	TP2	VRE05
2	13.5V Voltage	TP1	VRE04
3	Brightness	TP5 (G OUT)	VRE01
4	R-Sub Bright	TP4 (R OUT)	VRE06
5	B-Sub Bright	TP3 (B OUT)	VRE07
6	Color	TP3	VRE02
7	HUE	TP3	VRE03

Test point	- - - - - - - -▶
ADJ. point	————▶


2. LCCOM Voltage
7. HUE
3. Brightness
VRE01
VRE03
TP2
VRE07
VRE02
TP3 B-OUT
TP4 R-OUT
VRE06
TP5
G OUT
CE31
TP1
CE11
CE27
VRE05
VRE04
CE69
CVF PCB (Component side)
5. B-Sub Bright
1. 13.5V Voltage
4. R-Sub Bright
6. Colo

5-3 VCR Section Adjustment

5-3-1 Preparation

Note : Before preforming any VCR section adjustments, insert TP Board into CTP501 of main PCB. (See Fig. 2)

1. Equipment :

1) Monitor TV.
2) Dual trace oscilloscope of over 20MHz band, incorporates delay mode.
   (Use 10 : 1 probe unless otherwise specified.)
3) Frequency counter
4) Pattern generator with video output terminal.
5) Digital voltmeter.
6) DC power supply.
7) Alignment tape (Color bar : SP)

2. Composition of VCR PCBoards

1) Main PCB (system control/servo, video, audio, camera)
2) Function PCB
3) DC/DC converter PCB
4) A/V Jack PCB

3. Set-up during adjustment

Since the video output signal obtained from the pattern generator is used as the adjusting signal for the VCR block, it is necessary that this video output signal be within the required specifications.
Connect an oscilloscope to the video input jack and make sure that the amplitude of the video SYNC signal is approximately 0.3V, that the video block amplitude is approximately 0.7V, that the burst signal amplitude is approximately 0.3V with flat characteristics, and the signal level ratio between the burst signal and "Red" signal is 0.30 : 0.66.
The video signal (color bars) used for VCR block electrical adjustment is shown in figure 2.

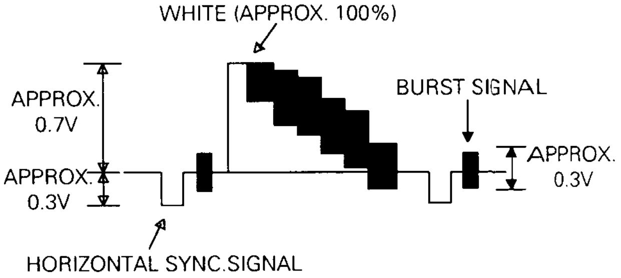


Fig. 1 Color bar signal pattern generator

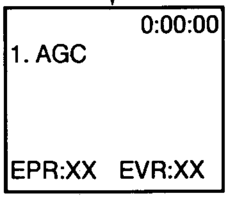
4. Service "**ADJUST**" mode :

STEP 1

1. Connect the power source (battery/DC cable).
2. Set the power switch of the camcorder to VCR position.
3. Press the eject key to eject mode.

STEP 2

1. Press and hold " ■ (STOP)" button on camcorder and "WIDE" button on remote control at the same time for more than 5 seconds.
2. If OSD looks like below figure, VCR adjustment mode has been successfully activated.
3. Insert tape into housing ass'y and then perform the adjustments.



0:00:00
1. AGC

EPR:XX EVR:XX

5. How to connect VCR adjustment jig :

1) Insert TP Board into CTP501 of main PCB.
2) Connect video signal input cable between V-IN connector and VIDEO OUT of pattern generator to input video signal from pattern generator to TP Board as shown below.

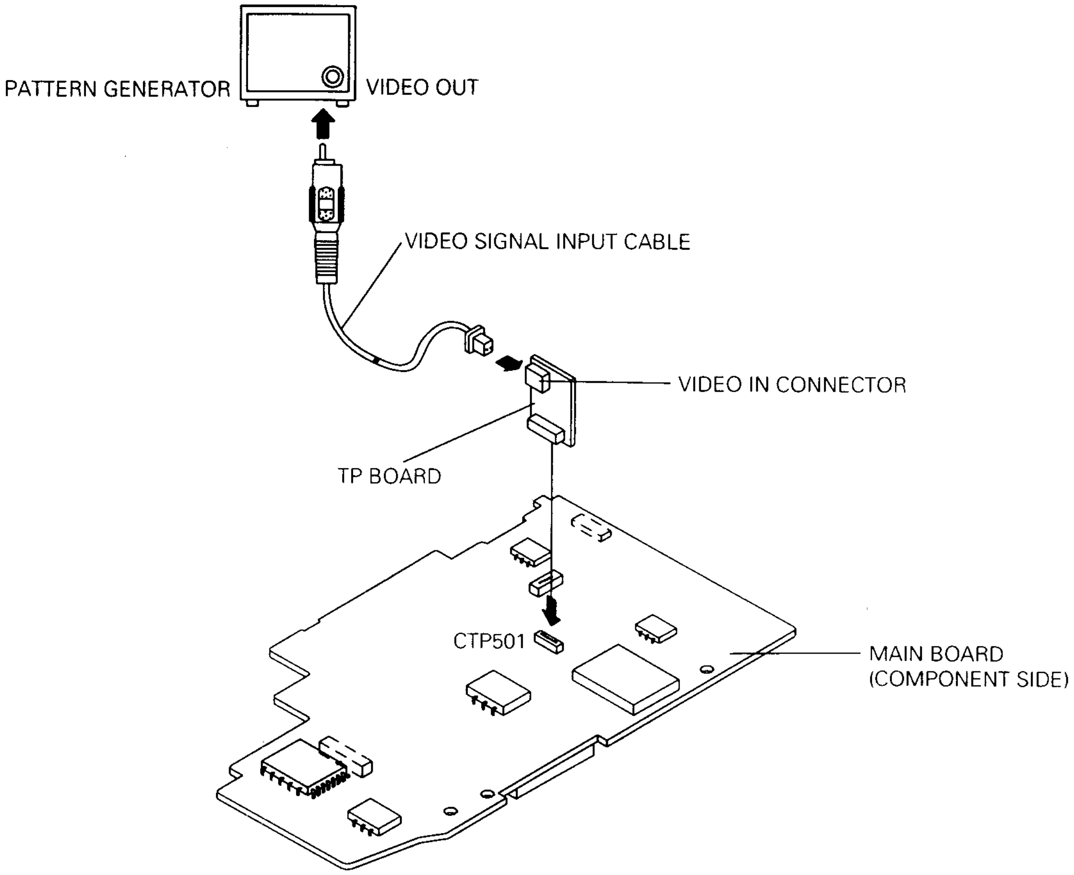

PATTERN GENERATOR
VIDEO OUT
VIDEO SIGNAL INPUT CABLE
VIDEO IN CONNECTOR
TP BOARD
CTP501
MAIN BOARD
(COMPONENT SIDE)

Fig. 2

6. How to connect VCR adjustment jig

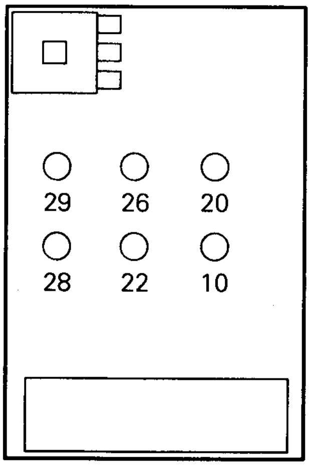
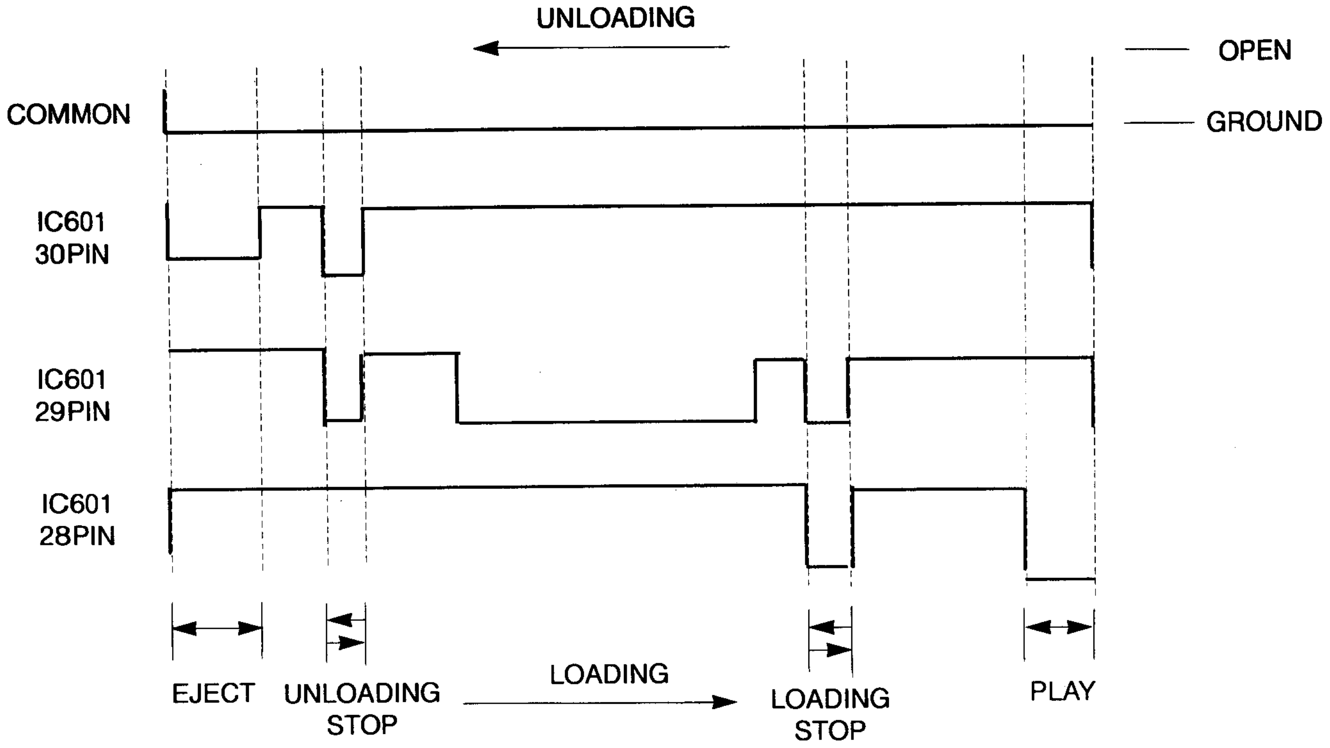

29
26
20
28
22
10

Fig. 3 TP Board

Pin-No.	Use	Remark
10	CAM 5V Adjustment	DC/DC Converter Section
20	Y/C Seperation adjustment	Video Seciton
22	PB Output Level adjustment Y-FM Deviation	Video Section
26	Audio R out	Audio Section
28	Audio L out	Audio Section
29	Cam 15V adjustment	DC/DC Converter Section

5-3-2 Timing Chart of Program Switch

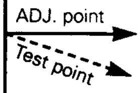


POSITION	IC601 30PIN	IC601 29PIN	IC601 28PIN	Action Mode
EJECT	L	H	H	EJECT
UNLOADING STOP	L	L	H	UNLOADING STOP
LOADING STOP	H	L	L	LOADING STOP
PB	H	H	L	PLAY,FF,REW,STILL...

5-3-3 DC/DC Converter Section

Note : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	


ADJ. point
Test point

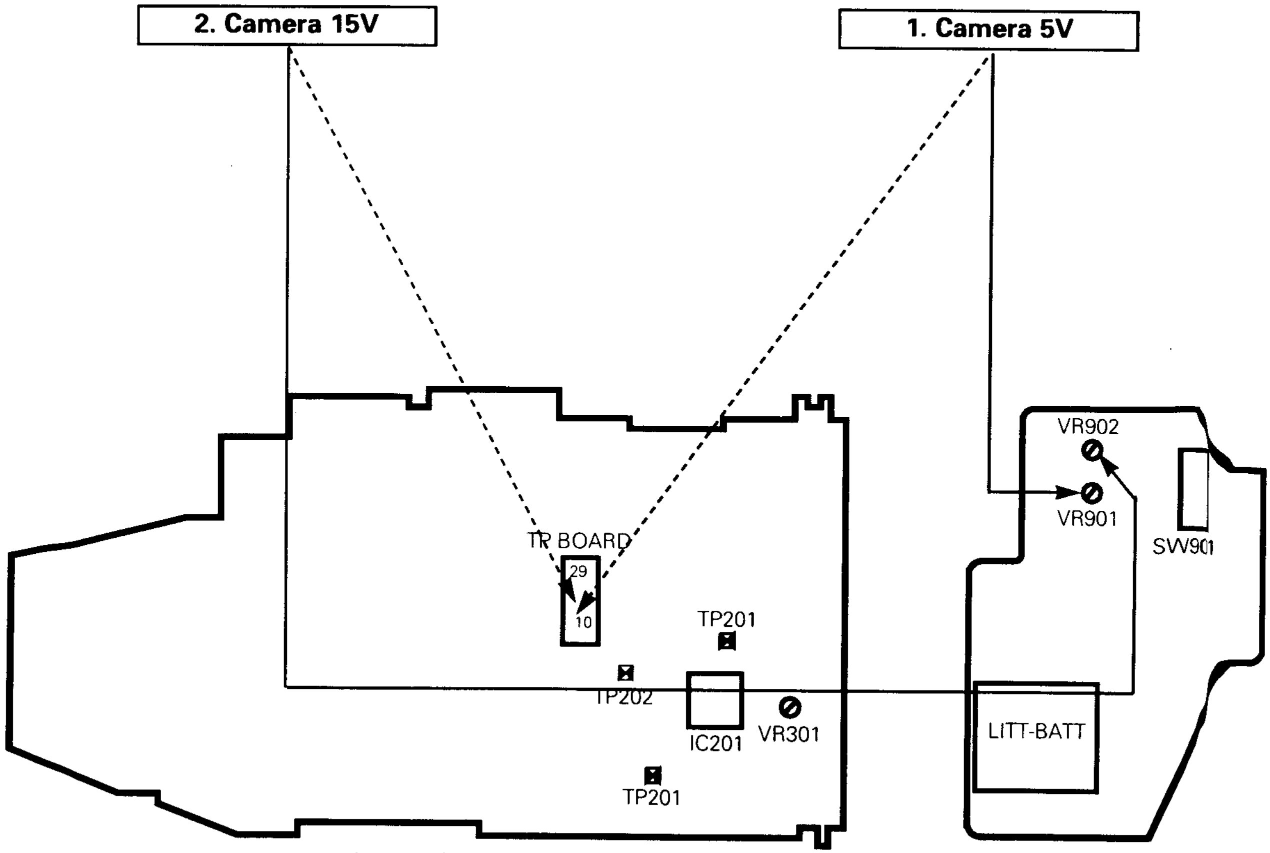
1. Camera 5V

1. Camera, no signal input.
2. Pin 10 of TP Board and VR901.
3. Set the power switch to the camera mode.
4. Connect digital voltmeter probes to pin 10 of the TP Board.
5. Adjust VR901 for DC5.0 ± 0.05V.

2. Camera 15V

1. Camera, no signal input.
2. Pin 29 of TP Board and VR902.
3. Set the power switch to the camera mode.
4. Connect digital voltmeter probes to pin 29 of the TP Board.
5. Adjust VR902 for DC15 ± 0.2V.

Note : Before adjustment, insert the TP BOARD into the CTP501.


2. Camera 15V
1. Camera 5V
VR902
VR901
SW901
TP BOARD
29
10
TP201
TP202
IC201
VR301
TP201
LITT-BATT

Main PCB (Component side)

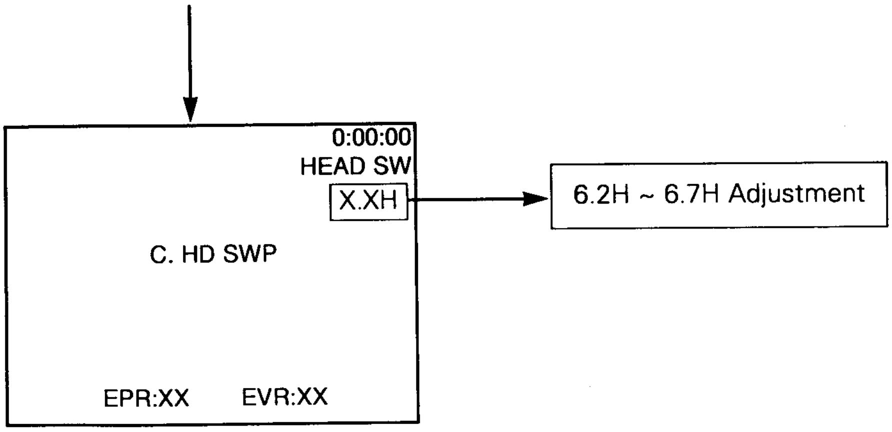
DC/DC Converter PCB
(Component side)

5-3-4 Servo Section

Note : From this point forward, the structure of every adjustment is as follows.

1. Head Switching

1) PB, color bar tape.
2) EVR.
3) Confirm the Head switch mode by pressing the "STILL" (mode change) button of remote control.
4) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that Head switching data in EVF or CVF is 6.2H ~ 6.7H.
5) Press the "START/STOP(CONFIRM)" button on remote control to memorize setting.

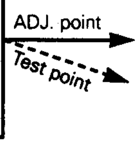

0:00:00
HEAD SW
X.XH
C. HD SWP
EPR:XX
EVR:XX
6.2H ~ 6.7H Adjustment

(EVF or CVF OSD)

5-3-5 Video Section

Note 1 : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	



Note 2 :
How to record - Press the "START/STOP" button on set at adjusment mode.

Note 3 :
1. See page 5-22 for the location of test points and adjustments.
2. Press the "STILL" button of remote control for mode change.

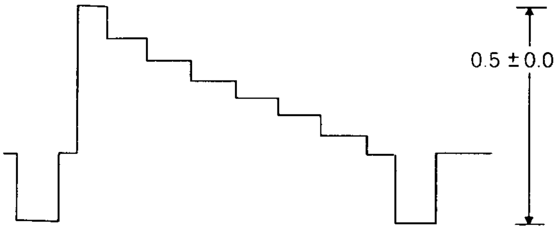
Note 4 :
"XX" indicates arbitary values.

1. AGC

EPR:XX EVR:XX

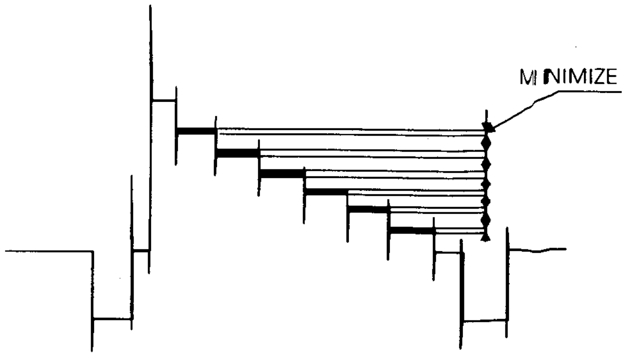
1. AGC

1) Rec, 100% color bar signal.
2) TP201 and EVR.
3) Confirm the AGC mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to TP201.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so the the TP201 is 0.5 ± 0.02Vp-p from SYNC TIP to PEAK level.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



2. Y/C Separation

1) Rec, 100% color bar signal.
2) Pin 20 of TP Board and VR301, EVR.
3) Confirm the Y/C separation mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 20 of TP Board.
5) Adjust VR301 to minimize the residual chroma component.
6) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the pin 20 of TP Board minimize the residual chroma component.
7) Adjust VR301 to minimize the residual chroma component.
8) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.

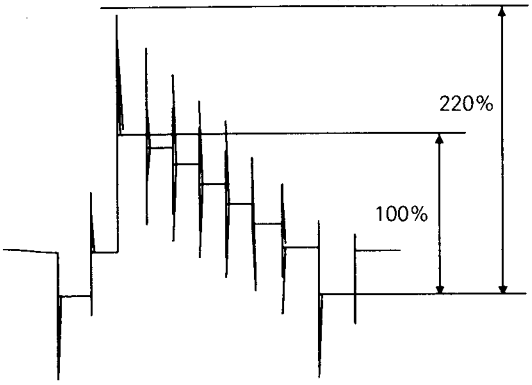


3. Y-FM Carrier Frequency

1) Rec, no signal input
2) TP202 and EVR
3) Confirm the CARRIER mode by pressing the "STILL" (mode change) button of remote control.
4) Connect frequency counter probe to TP202.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the TP202 is 4.22 ± 0.02MHz.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.

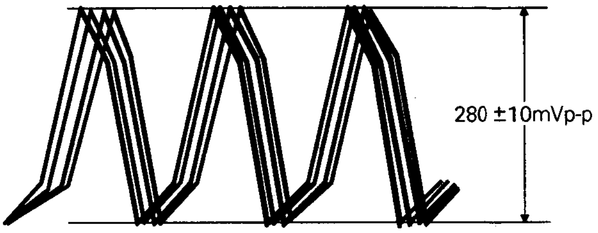
4. White Clip Level

1) Rec, 100% color bar signal
2) TP203 and EVR
3) Confirm the white clip mode by pressing the "STILL"(mode change) button of remote control.
4) Connect an oscilloscope to TP203.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the TP203 is 220% from SYNC TIP to PEAK level.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



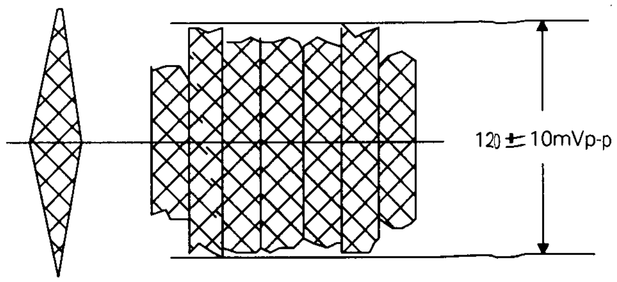
5. REC Y Level

1) Rec, color bar signal
2) TP202 and EVR
3) Confirm the REC Y mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to TP202.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the TP202 is 280 ± 10mVp-p.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



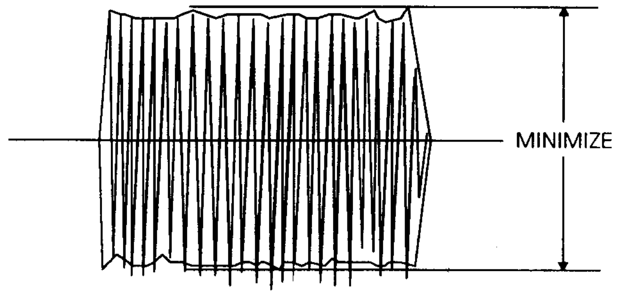
6. REC C Level

1) Rec, color bar signal
2) TP203 and EVR
3) Confirm the REC C mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to TP203.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the TP203 is 120 ± 10mVp-p .
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



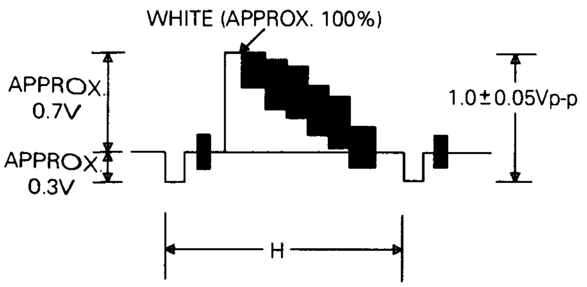
7. Chroma Emphasis fo

1) Rec, 20% color signal.
2) TP203 and EVR.
3) Confirm the chroma emphasis mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to TP203.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the TP203 minimize the color level.
6) Press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



8. PB Output Level

1) PB, color bar tape.
2) Pin 22 of TP Board and EVR.
3) Confirm the PB Y mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 22 of TP Board.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the pin 22 of TP Board is 1.0 ± 0.05Vp-p from SYNC to PEAK level.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



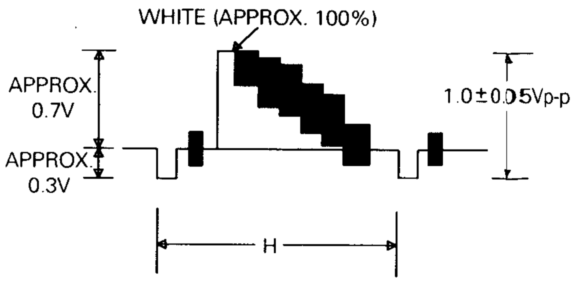
9. Y-FM Deviation

Note : Confirm that Y-FM Center Frequency and PB output Level adjustment have been completed.

1) Rec PB, 100% color bar signal.
2) Pin 22 of TP Board and EVR.
3) Record the color bar signal at adjustment mode.
4) Turn power off/on and then playback the recorded signal.
5) Confirm the playback output of pin 22 of TP Board. (Specified value: 1.0 ± 0.05Vp-p)
6) If the specified value is not satisfied, repeat the last three steps.

- When larger than specified value : press the "FF(DATA UP)" and then press the "START/STOP(CONFIRM)" button.

- When smaller than specified value : press the "REW(DATA DOWN)" and then press the "START/STOP(CONFIRM)" button.



10. Sharpness

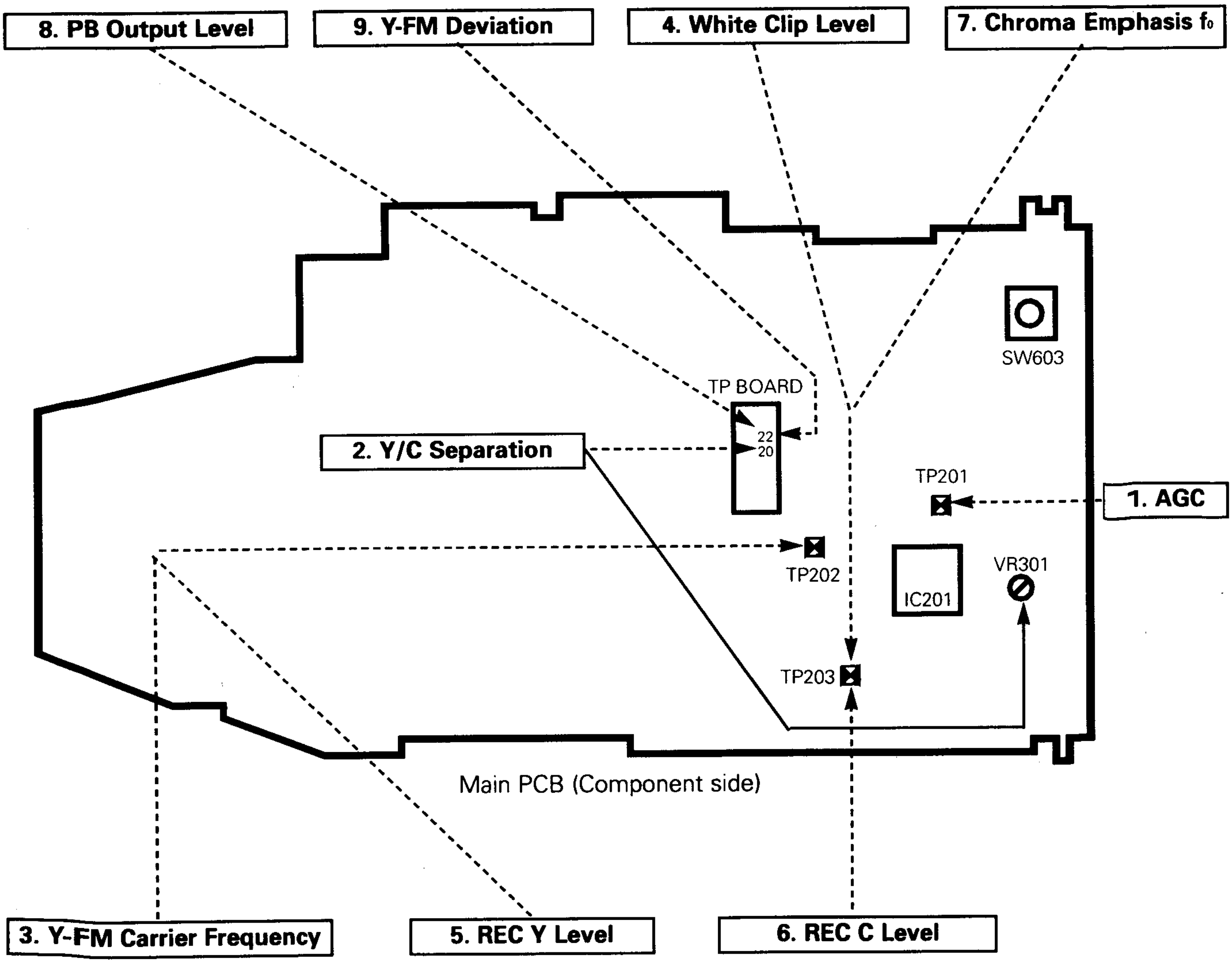
Sharpness adjustment is fixed to EVR data 75.

◆ Test point and adjustment point

Adj.No.	Adjustment name	Test point	Adjustment point
1	AGC	TP201	EVR
2	Y/C Separation	Pin 20 of TP Board	VR301, EVR
3	Y-FM Carrier Frequency	TP202	EVR
4	White Clip Level	TP203	EVR
5	REC Y Level	TP202	EVR
6	REC C Level	TP203	EVR
7	Chroma Emphasis f₀	TP203	EVR
8	PB Output Level	Pin 22 of TP Board	EVR
9	Y-FM Deviation	Pin 22 of TP Board	EVR
10	Sharpness	-	EVR data 75

Test point -------->
ADJ. point ———>

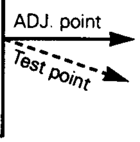
Note : Before adjustment, insert the TP BOARD into the CTP501.


8. PB Output Level
9. Y-FM Deviation
4. White Clip Level
7. Chroma Emphasis f₀
SW603
TP BOARD
22
20
2. Y/C Separation
TP201
1. AGC
TP202
IC201
VR301
TP203
Main PCB (Component side)
3. Y-FM Carrier Frequency
5. REC Y Level
6. REC C Level

5-3-6 Audio Section

Note : From this point forward, the structure of every adjustment is as follows.

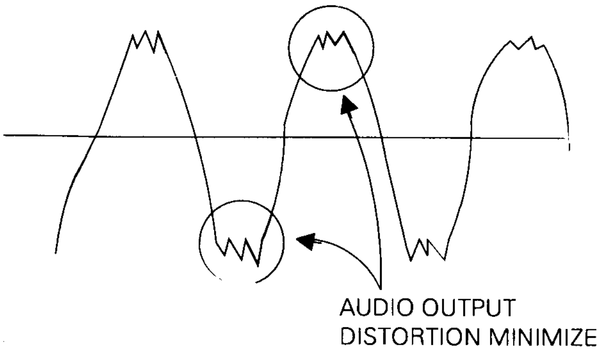
Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	



Note : See page 5-24 for the location of test points and adjustments.

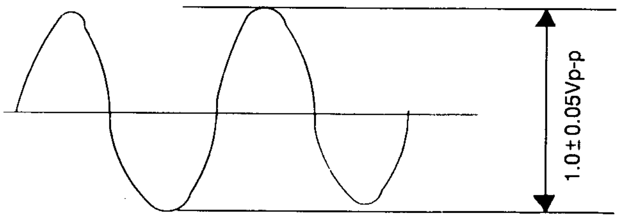
1. Audio BPF

1) PB, color bar tape.
2) Pin 28 of TP Board and EVR.
3) Confirm the audio BPF mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 28 of TP Board.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the output waveform is completed sine wave and the distortion is minimized.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



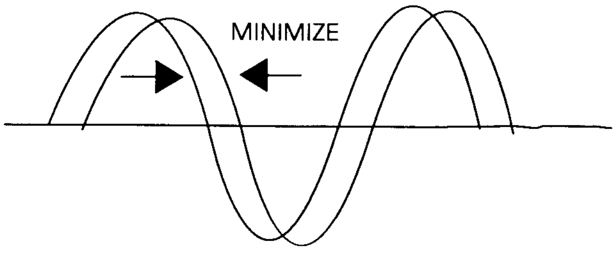
2. Audio 1.5MHz Deviation

1) PB, color bar tape.
2) Pin 28 of TP Board and EVR.
3) Confirm the audio 1.5MHz mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 28 of TP Board.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the pin 28 of TP Board is 1.0 ± 0.05Vp-p.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



3. Audio 1.7MHz Deviation

1) PB, color bar tape.
2) Pin 26 of TP Board and EVR.
3) Confirm the audio 1.7MHz mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 26 of TP Board.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the pin 26 of TP Board is minimize distortion.
6) Be sure to press the "START/STOP(CONFIRM)" button on remote control to memorize setting.

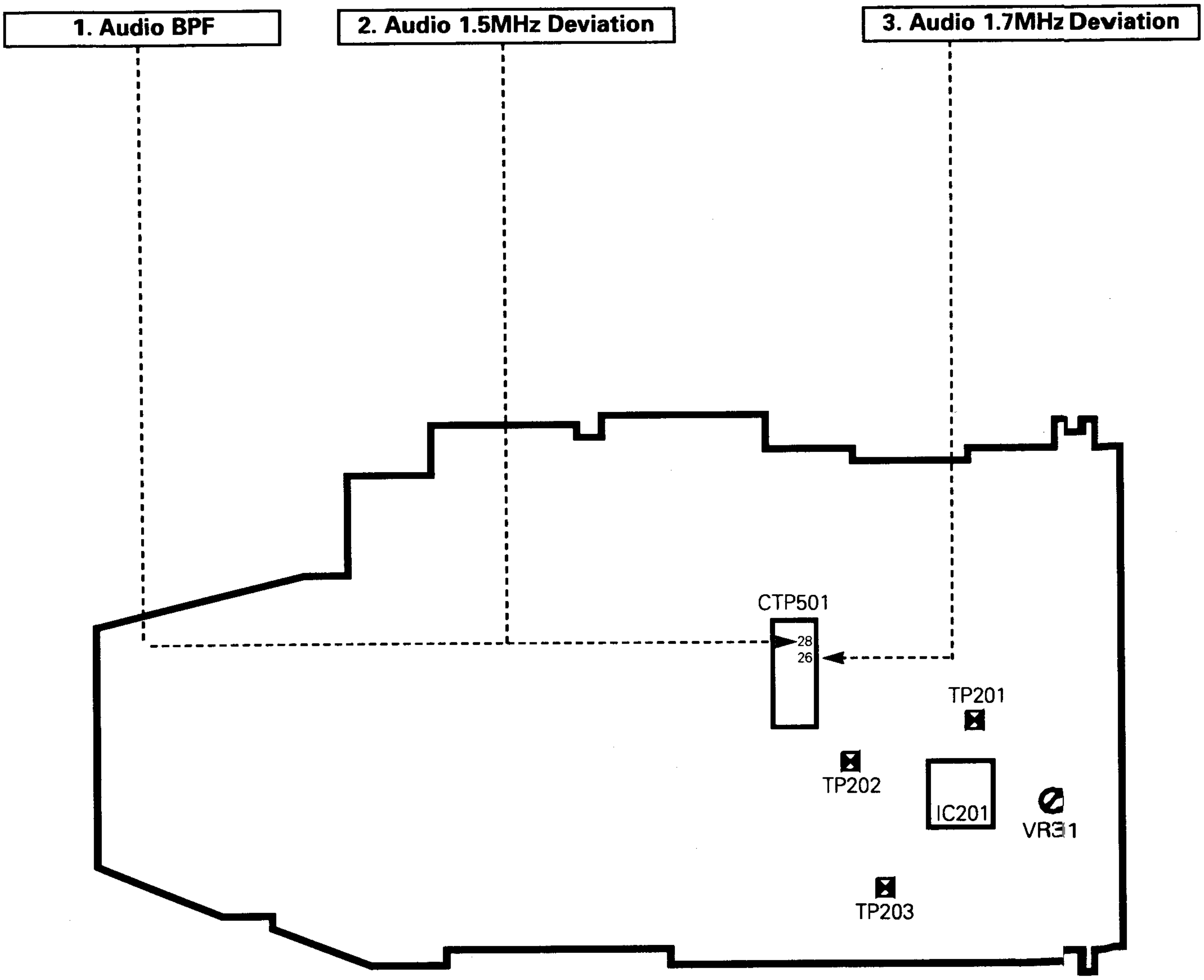


◆ Test point and adjustment point

Adj. No.	Adjustment name	Test point	Adjustment point
1	Audio BPF	Pin 28 of TP Board	EVR
2	Audio 1.5MHz Deviation	Pin 28 of TP Board	EVR
3	Audio 1.7MHz Deviation	Pin 26 of TP Board	EVR

Test point	------►
ADJ. point	——►

Note : Before adjustment, insert the TP BOARD into the CTP501.


1. Audio BPF
2. Audio 1.5MHz Deviation
3. Audio 1.7MHz Deviation
CTP501
28
26
TP201
TP202
IC201
VR311
TP203

Main PCB (Component side)

6. Exploded View and Parts List

Page

6-1 Cabinet Assembly (1) - 6-2

6-2 Cabinet Assembly (2) - 6-4

6-3 Mechanical Parts (1) - 6-6

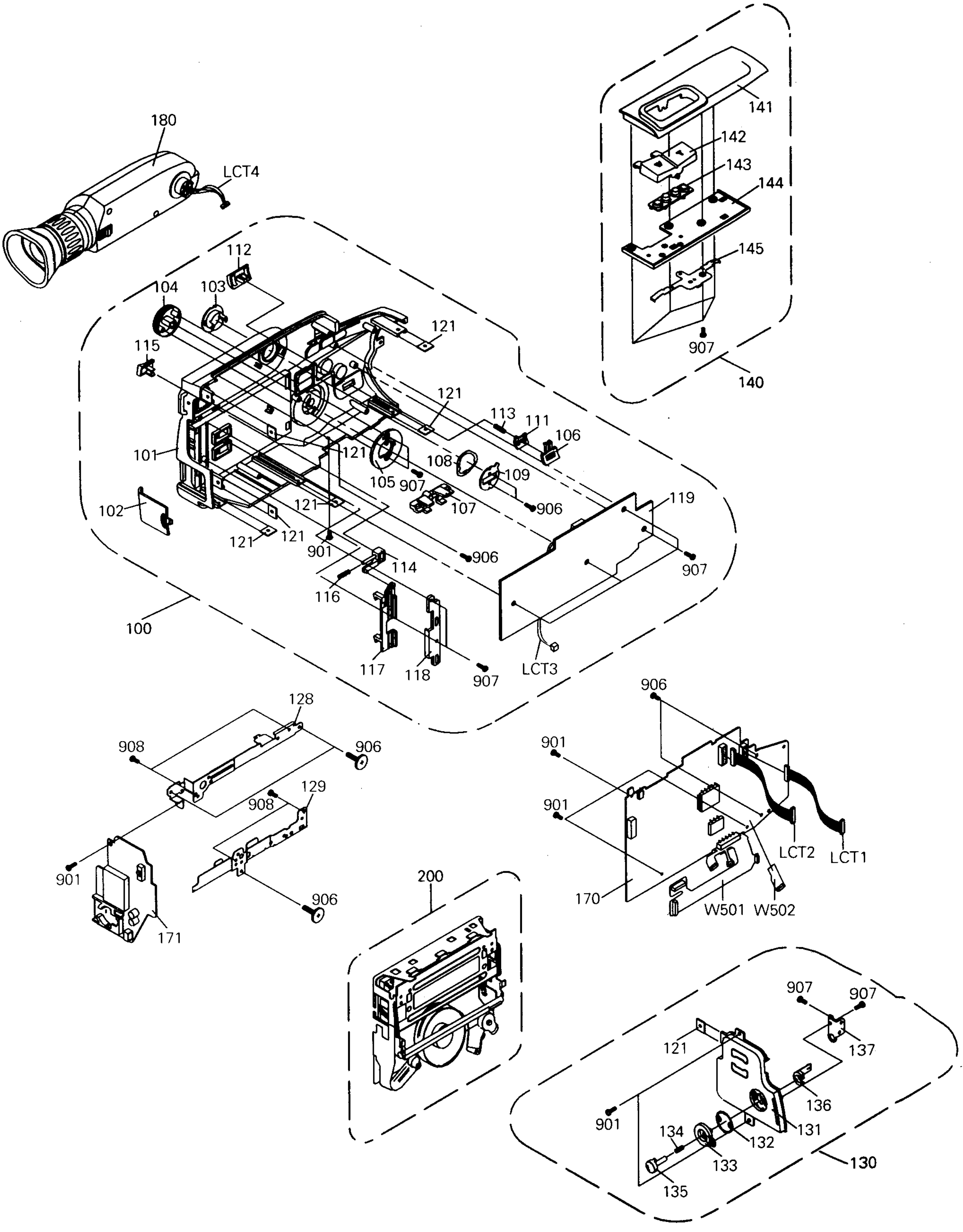
6-4 Mechanical Parts (2) - 6-8

6-5 Mechanical Parts (3) - 6-10

6-6 EVF (VP-K80) - 6-12

6-7 CVF (VP-K85) - 6-14

6-1 Cabinet Assembly (1)



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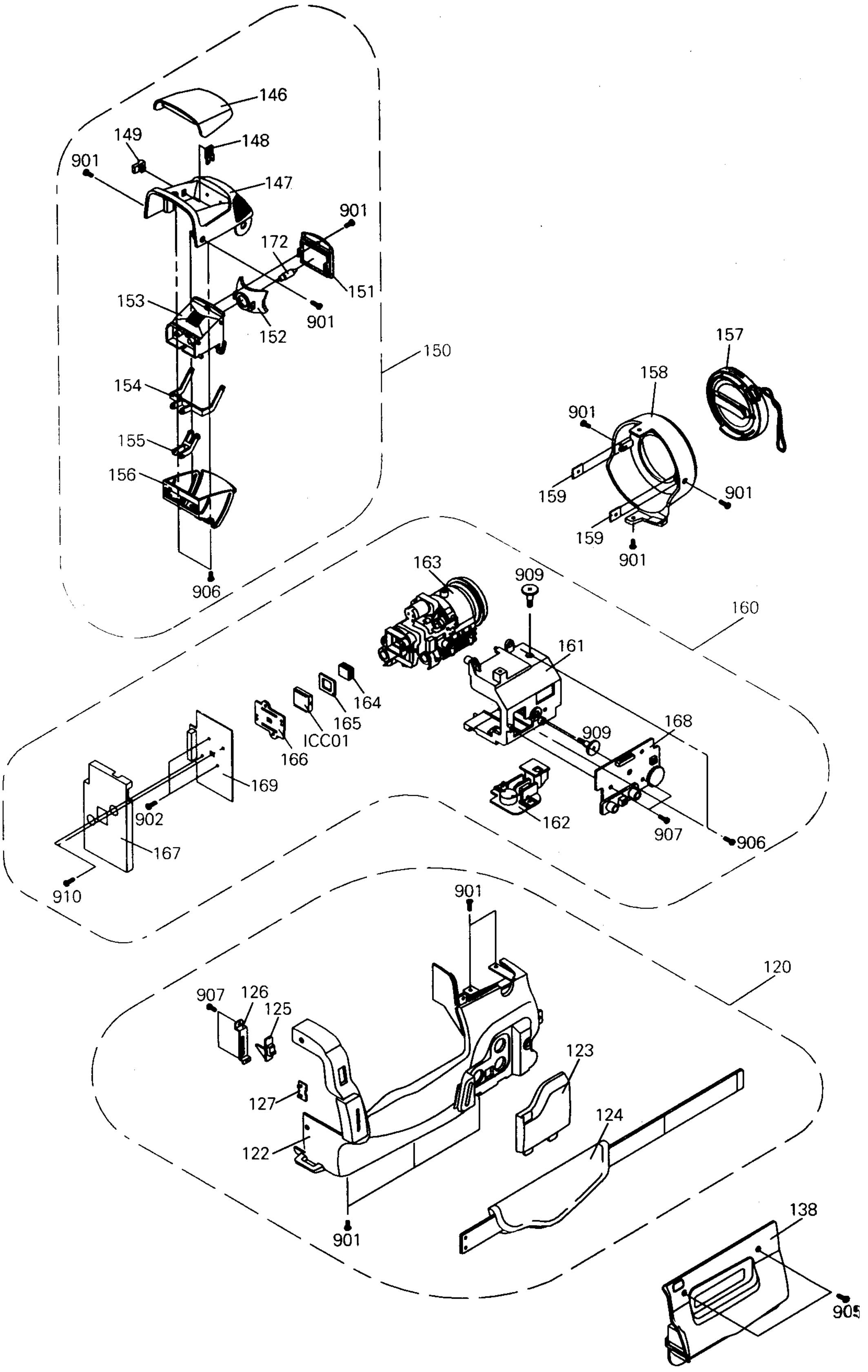
Loc. No	New Part No	Description and Specification	Old Part No
100	AD98-11201D	ASSY-CASE LEFT;VP-K80/SEG,-	-
101	AD64-30015A	CASE-LEFT;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62031-0276-00
102	AD63-30004A	COVER-LI BATTERY;ABS 94,HB,-,BLACK,-,-,-,VP-K80	63313-0247-00
103	AC61-20013A	HOLDER;POM,94HB,BLK,-,-,-	61644-0020-00
104	AD64-10024A	KNOB-ROTARY;ABS 94,HB,-,BLACK,VP-K80,-	64083-0769-00
105	AD61-20022A	HOLDER-ROTARY;POM 94,HB,-,BLACK,VP-K80,-	63323-0529-00
106	AD66-30004A	LEVER-POWER;POM 94,HB,T1.0,-,-,-	61534-0171-00
107	AD66-30006A	LEVER-T/W;POM 94,HB,T2.7,BLACK,-,-	61533-0174-00
108	AC61-32037A	PLATE-SPRING EVF;C1720S,T0.4,-,VN-E405,-	60104-0028-00
109	AC61-10135A	BRACKET-EVF;SUS 304,-,T 0.8,-,-,VP-K70,-	63014-0299-00
111	AD61-20019A	HOLDER-POWER;POM 94,HB,-,BLACK,VN-F35,-	63324-0526-00
112	AD64-10008A	BUTTON-POWER;ABS 94,HB,-,BLACK,VP-K80,-	64084-0761-00
113	66674-641-610	SPRING-KNOB POWER;SUS304 WPB	-
114	AD66-30001A	LEVER-BATTERY;ABS 94,HB,T1.2,BLACK,-,-	61534-0172-00
115	AD64-10003A	BUTTON-EJECT BATTERY;POM 94,V0,-,BLACK,VP-K80,-	64084-0766-00
116	AC61-60099A	SPRING;CS,SUS304WPB,P0.3,D3.6,L8,-,-	62724-0192-00
117	AD61-20005A	HOLDER-EJECT BATTERY;ABS 94,HB,-,BLACK,-,-	63323-0530-00
118	AD61-50004A	GUIDE-EJECT BATTERY;ABS 94,HB,-,BLACK,-,VP-K80,-	63354-0117-00
119	AC90-10017F	ASSY-FUNCTION BOARD;VP-K80,-	69063-215-161
121	AC61-20223A	HOLDER;SECC,T1.0,NAT,-,-,-	63324-0292-00
128	AD61-10005A	BRACKET-DECK A;SUS,-,T0.5,WHITE,-,VP-K80,-	63013-0314-00
129	AD61-10006A	BRACKET-DECK B;SUS,-,T0.5,WHITE,-,VP-K80,-	63013-0315-00
130	AD98-11201E	ASSY-CASE BACK;VP-K80/SEG,-	-
131	AD64-30001A	CASE-BACK;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0278-00
132	AC61-62013A	SPRING-PLATE START/S;PS,STS301,T0.2,OD16,-,(VN-U1,	62724-0181-00
133	AD64-10021A	KNOB-REC START/STOP;ABS 94,HB,-,BLACK,VP-K80,-	64083-0771-00
134	AC61-60068A	SPRING;CS,STS304 WPB,P0.23,D4,L7,-,-	62724-0093-00
135	AD64-10009A	BUTTON-REC START;ABS 94,HB,-,BLACK,VP-K80,-	64084-0765-00
136	AD61-20021A	HOLDER-REC START/ST;POM 94,HB,-,BLACK,VP-K80,-	63323-0528-00
137	AD61-10004A	BRACKET-BACK;SECC,-,T0.8,WHITE,-,VP-K80,-	63014-0316-00
140	AD98-11201F	ASSY-CASE TOP;VP-K80/SEG,-	-
141	AD64-30028A	CASE-TOP;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0277-00
142	AD64-10013A	BUTTON-T/W;ABS 94,HB,-,BLACK,VP-K80,-	64083-0758-00
143	AD64-10033A	KNOB-T/W;SILICON,-,-,BLACK,-,-	63394-0127-00
144	AD61-40004A	SUPPORTER-CASE TOP;POM 94,HB,-,BLACK,VP-K80,-,-	63073-0043-00
145	AC66-82057A	LINK-CASE TOP;-,SUS304,T0.3 L66,-	61553-0016-00
170	AC90-10017E	ASSY-MAIN BOARD;VP-K80,-	69063-215-162
171	AC90-10017G	ASSY-DC/DC BOARD;VP-K80,-	69063-215-160
180	AD90-10800D	ASSY-EVF;VP-K80,S8C PAL	-
	AD90-10800E	ASSY-CVF;VP-K85,S8C PAL	-
200	AC96-10013V	ASSY-DECK 8MM;DE-6PN,-	DE-6PN
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
908	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	67094-117-350
LCT1	AD39-20819A	LEAD CONNECTOR-ASSY;-,51021,51021,6P,70MM,1571#28	-
LCT2	AC39-20004U	LEAD-CONNECTOR ASS'Y;110MM,-,1.25MM,51021,1571#28,	66439-0114-00
LCT3	AD39-20822A	LEAD CONNECTOR-ASSY;-,PHR-2,PHR-2,2P,130MM,1007#26	-
LCT4	AC39-20004R	LEAD-CONNECTOR ASS'Y;90MM,51021,1.25MM,51021,1061#	66439-0111 -00
W501	AC90-10012X	ASSY-FPC;DE-6,-	69063-215-091
W502	AC90-10012Y	ASSY-FPC;PRE AMP,-	69063-215-092

6-2 Cabinet Assembly (2)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Loc. No	New Part No	Description and Specification	Old Part No
120	AD98-12001C	ASSY-CASE RIGHT;VP-K80/SEG,-	-
	AD98-12001K	ASSY-CASE RIGHT;VP-K85/SEG,-	-
122	AD64-30026C	CASE-RIGHT;-,ABS94,V0,-,-,-,-,VP-K85/SEG	-
123	AD64-50001A	DOOR-A/V JACK;PE,-,T1.0,BLACK,-,-,-,VP-K80	64043-0287-00
124	AC63-10007A	GRIP;LEATHER,BLK,T1.5,-,SV-H66,-,-	67179-0211-00
125	AD64-10026A	KNOB-TAPE EJECT;ABS 94,HB,-,BLACK,VP-K80,-	64084-0767-00
126	AD61-10012A	BRACKET-TAPE EJECT;SECC,-,T0.8,WHITE,-,VN-F35,-	63014-0313-00
127	AC61-20251A	HOLDER-GRIP;NYLON 66,-,NTR,-,VP-K70,-	63324-0450-00
138	AD59-10310A	UNIT-COVER HOUSING;VP-K80/SEG,-	-
	AD59-10310C	UNIT-COVER HOUSING;VP-K85/SEG,-	-
146	AD63-30006A	COVER-LIGHT;PC 94,HB,T1.2,CLR,-,-,-,VP-K80	63313-0250-00
147	AD64-30011A	CASE-FRONT;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0279-00
148	AD66-30002A	LEVER-EJECT;POM 94,HB,-,BLACK,-,-	61534-0173-00
149	AD64-10004A	BUTTON-EJECT;ABS 94,HB,-,BLACK,VP-K80,-	64084-0763-00
150	AD98-11201H	ASSY-CASE FRONT;VP-K80/SEG,-	-
151	AD67-20002A	MIRROR-LIGHT;PC,-,T1.8,CLR,-,-,-,-	64143-0004-00
152	AD63-30006A	MASK-LAMP	-
153	AD61-10001A	BODY-LIGHT;PC/ABS 94,V0,T1.2,BLACK,-,VP-K	62212-0123-00
154	AD66-80002A	LINK-LAMP B;PC CLASS,-,T1.2,-,-	61554-0026-00
155	AD66-80001A	LINK-LAMP A;POM 94,HB,T1.5,BLACK,-	61554-0025-00
156	AD61-20016A	HOLDER-LIGHT;ABS 94,HB,-,BLACK,VP-K85,-	63322-0527-00
157	AC59-90001P	UNIT-CAP HOOD;VP-K70,-,-	67173-0223-00
158	AD67-10002A	LENS-HOOD;PC/ABS 94,HB,D:57.5,BLACK,-,-,	62712-0119-00
159	AC61-32047A	PLATE-NUT;SECC,T0.8,-,-,SV-V40	63474-0036-00
160	AC99-10007L	ASSY-CCD;VP-K80,-	CE-VP-K80
161	AD59-10321A	UNIT-FRAME LENS;VP-K80/SEG,-	-
162	AD59-90001H	UNIT-HOLDER TRIPOD;-,VP-K70,-	67173-0229-00
163	AC90-10012C	ASSY-LENS ZOOM;SEC 14X D28,-	69063-215-045
164	AC29-92002D	FILTER-OLP;SV-3C01MM,KSS,-,-	B1254-0008
165	AC63-62007A	SPACER-CCD;SILICON,-,BLK,-,VP-K70,-	63304-0027-00
166	AC61-10122A	BRACKET-CCD;A 5052,-,T 1.5,-,-,VP-K70,-	63014-0273-00
167	AD63-40822A	SHIELD-CASE;-,SPTE,T0.25,-,VP-K80	-
168	AD90-10800A	ASSY-A/V JACK;VP-K85C,BOARD	-
169	AC90-10017A	ASSY-CCD BOARD;VP-K80,-	69063-215-166
172	4713-001007	LAMP-HALLOGEN;6V,500MA,3W,YEL,45LM,-,4.8X15.	-
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
902	AC60-10024A	SCREW-MACHINE;BH,+,M2,X3,FZW,FE,-,-,-	67094-604-310
905	AD60-10001A	SCREW-MACHINE;BH,B,1.7*5.5,-,FE,BLACK,-,VP-K	60504-0113-01
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
909	AC60-12128A	SCREW-TAP TITE BH;-,BH,4 1.7,L4,-,FE,BLK	60509-0129-00
910	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	67128-521-206
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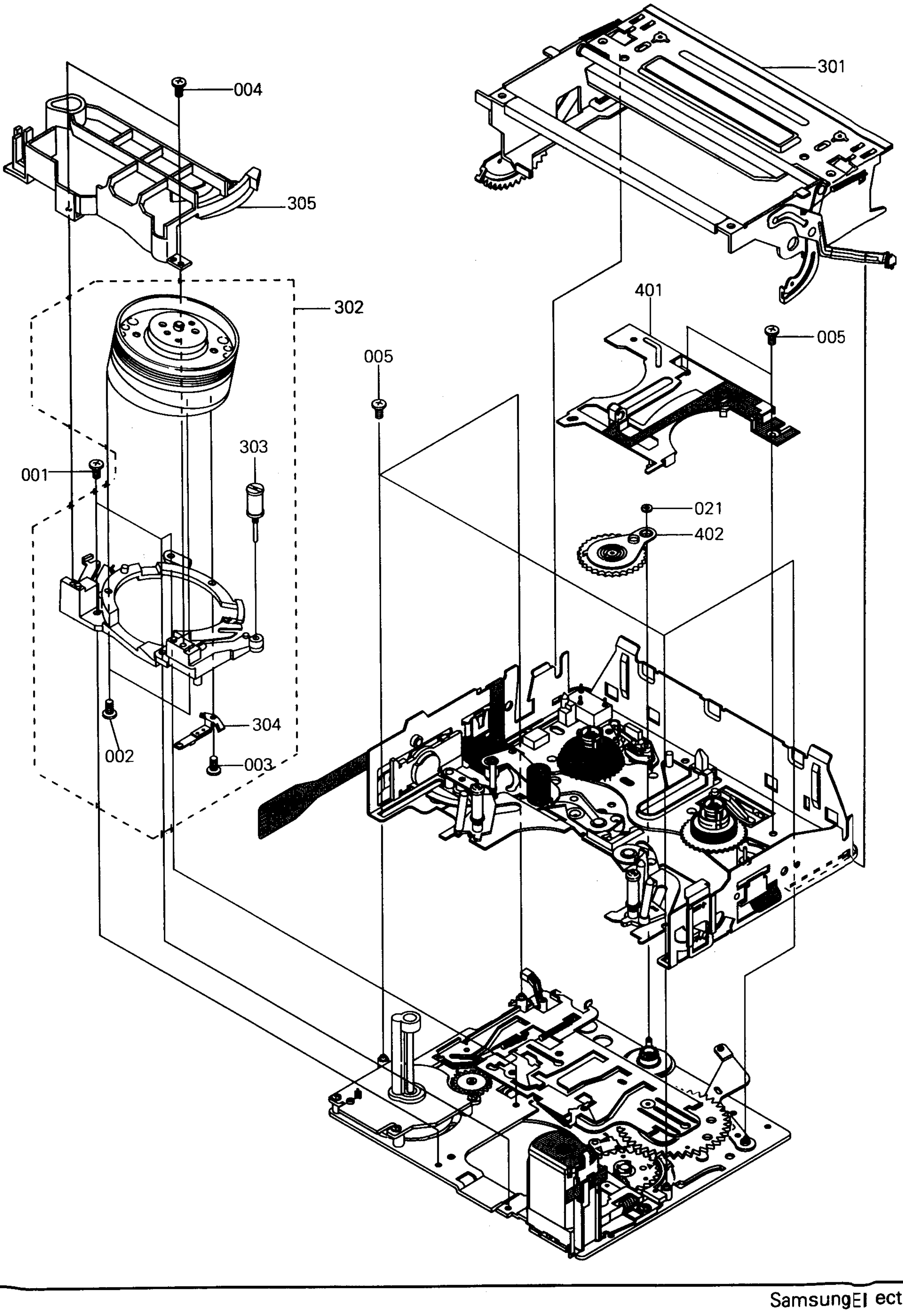
6-3 Mechanical Parts (1)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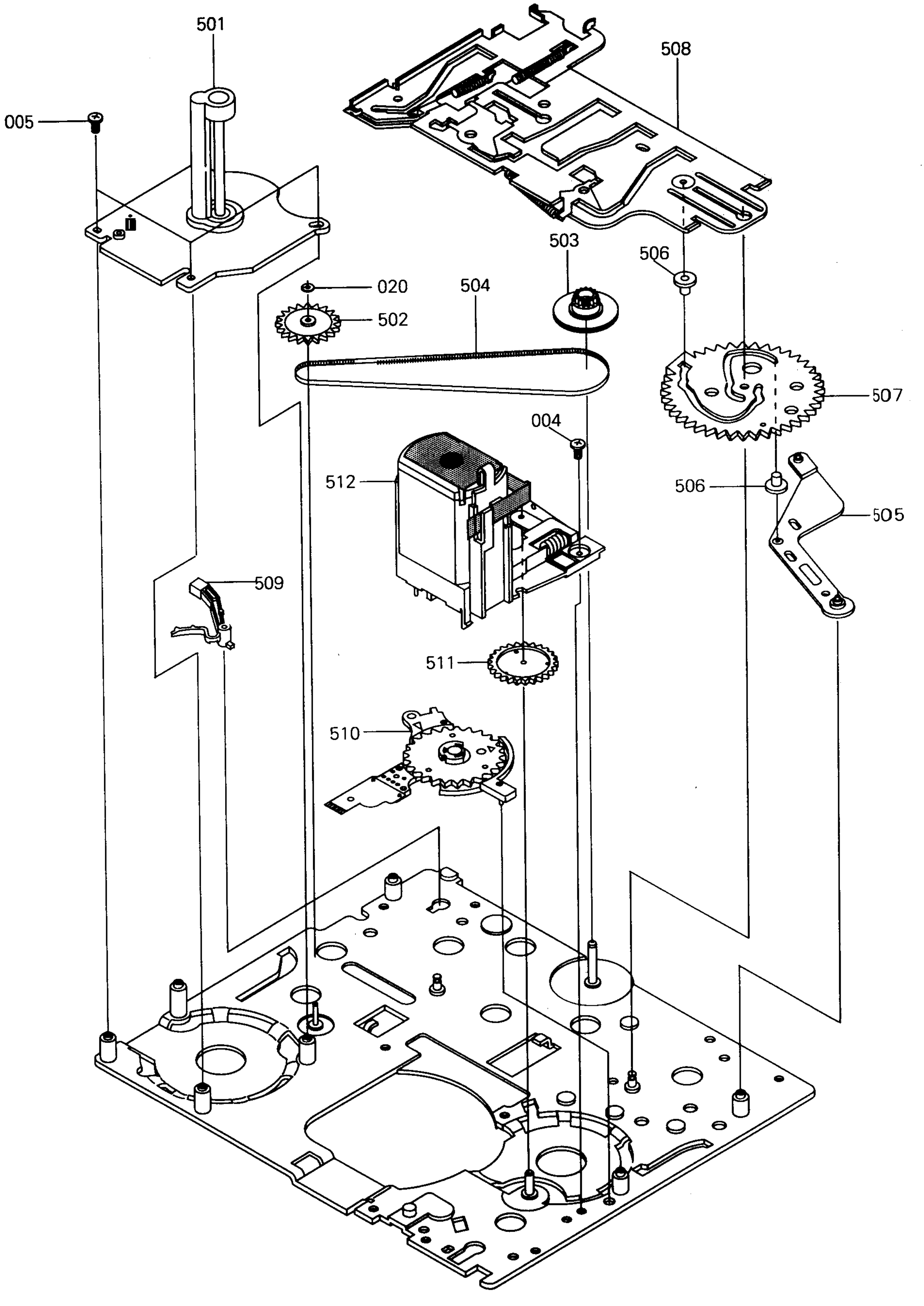
Loc. No	New Part No	Description and Specification	Old Part No
001	AC60-12083A	SCREW-MACHINE;B,BH,-,M1.7,L5,FE,WHT,-,-	60504-0038-00
002	AD60-10500E	SCREW-MACHINE;-,BWSH,+,UP,M2,L5,ZPCNYLOK,SWR	-
003	AD60-10500D	SCREW-MACHINE;-,BWSH,+,UP,M2,L7,ZPCNYLOK,SWR	-
004	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	67094-117-350
005	AC60-12112A	SCREW-BH;-,BH,+,M1.4,L2,-	60504-0005-00
021	AC60-30015A	WASHER-SLIT;ID 1.1,OD 2.6,T 0.4,POLYSLIDER	60534-0056-00
301	AC61-82004A	HOUSING-ASSY;-,-,-,DE-6,-	62051-0015-00
302	AC96-10005V	ASSY-DRUM;DE5-6PN-SS,-	69063-215-071
303	AC66-42002A	ROLLER-IMPEDANCE(ASS;SUS+VW11H,D7,-,DE-5	61523-0045-00
304	AC61-72009A	CONTACT-EARTH BRUSH;SECC/PBSP/CR/C,-,-,-,-,DE-4,-	66534-0006-00
305	AC63-32091A	COVER-DRUM;DURACON(M90-44),-,-,-,-,-,DE-6	63311-0206-00
401	AC63-30009A	COVER-REEL ASSY;ABS 95,HB,-,-,-,-,DE-6,-	63313-0209-00
402	AC66-12035A	IDLER-ASSY;-,-,DE-6	61603-0015-00

6-4 Mechanical Parts (2)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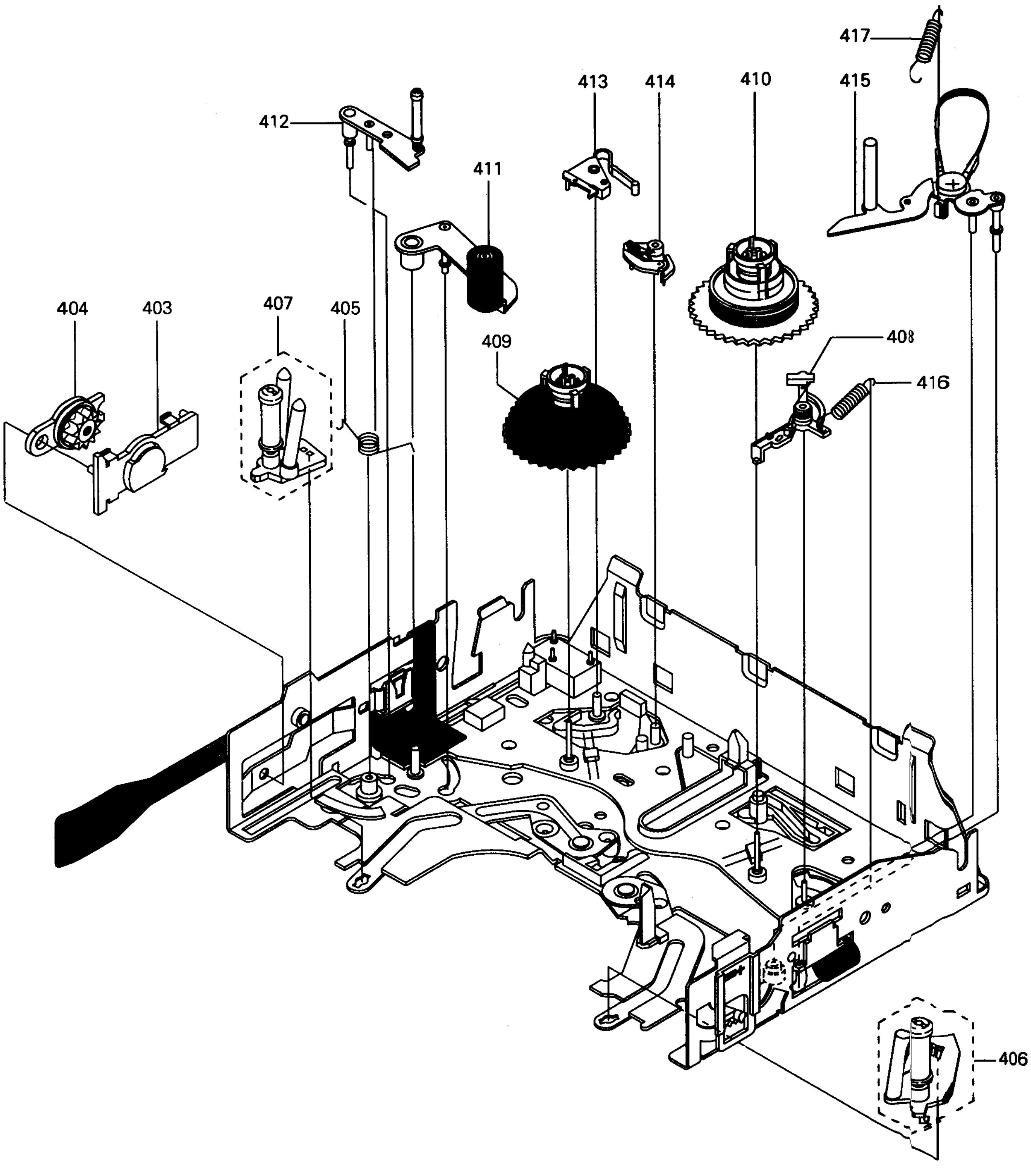
Loc. No	New Part No	Description and Specification	Old Part No
004	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	67094-117-350
005	AC60-12112A	SCREW-BH;-,BH,+,M1.4,L2,-	60504-0005-00
020	AC60-30017A	WASHER-SLIT;ID 1,OD 2.6,T 0.4,POLYSLIDER,-	60534-0058-00
501	AC31-12001Q	MOTOR-CAPSTAN;DMCCHL06A(DE-6),-,-	66823-0070-00
502	AC66-22123A	GEAR-CAPSTAN(ASSY);-,-,-,-,-,DE-6	61474-0141-00
503	AC66-22124A	GEAR-PULLEY(ASSY);-,-,-,-,-,DE-6	61474-0142-00
504	AC66-62001A	BELT-TIMMING;POLYURETHAN,L137 T0.4,-,-,-,-,	61493-0006-00
505	AC66-32197A	LEVER-CAM;SUS430-CP,T0.6,-,-,DE-6,-	61534-0127-00
506	AC66-42005A	ROLLER-CAM MAIN;SUS303,-,-,PI3.5X1.1	61524-0003-01
507	AC66-22092A	GEAR-CAM MAIN;SUS304-CSP,M0.5,Z64,-,-,-	61472-0138-00
508	AC66-82055A	SLIDER-MAIN(ASSY);-,-,-,-,DE-6	61643-0047-00
509	AC66-32198A	LEVER-EJECT;DURANEX #3300,-,-,-,DE-6,-	61534-0128-00
510	AC34-22001C	SWITCH-MODE ASSY;HMW0484-01WA,DE-6,-,-,-,-,-,-	66202-0023-00
511	AC66-22126A	GEAR-LOADING;DURACON(99-44),M0.4,Z37 WO,-,-	61474-0137-00
512	AC31-12001P	MOTOR-LOADING ASSY;DE-6,-,-	66823-0068-00

6-5 Mechanical Parts (3)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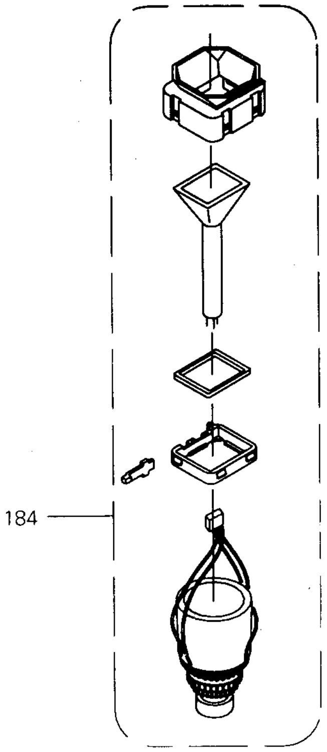
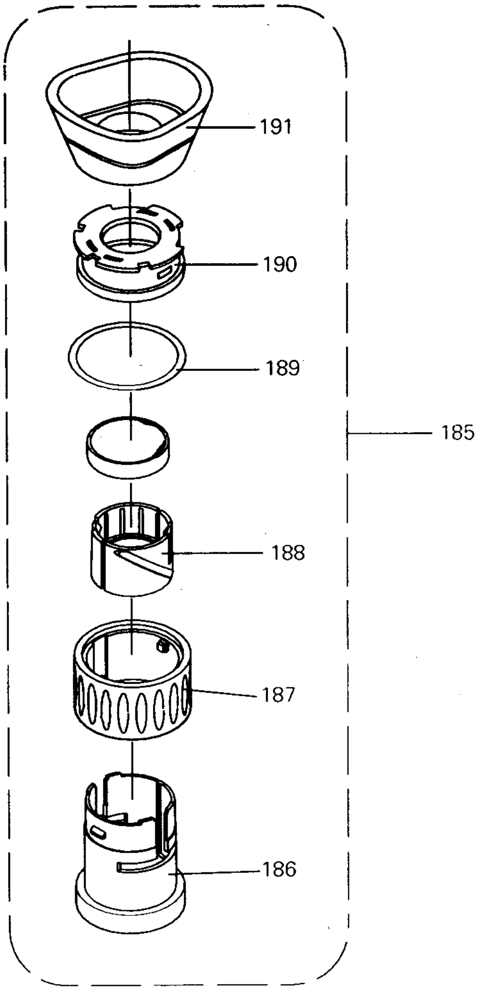
Loc. No	New Part No	Description and Specification	Old Part No
403	63313-0198-00	COVER-DAMPER;DURACON(M90-44) NTR DE-6	
404	AC61-82002A	DAMPER-HOUSING;Y29TO-E,-,14G,-,-,DE-6,-	62664-0018-00
405	62724-0278-00	SPRING-REVIEW ARM;PS SUS304-WPB PI0.3	
406	AC61-52014A	POLE-BASE S(ASSY);ZDC2/SUS303,-,-,-,-,DE-6,-	63033-0040-00
407	AC61-52015A	POLE-BASE T(ASSY);ZDC2/SUS303,-,-,-,-,DE-6,-	63033-0043-00
408	AC66-32221A	BRAKE-SUB S(ASSY);-,-,-,-,DE-6,-	62613-0021-00
409	AC66-12042A	REEL-T(ASSY);-,-,-,DE-6	61573-0037-00
410	AC66-12041A	REEL-S(ASSY);-,-,-,DE-6	61573-0035-00
411	AC66-32217A	ARM-PINCH ROLLER(ASS;-,-,-,-,DE-6	61544-0100-00
412	AC66-32213A	ARM-REVIEW ASSY;-,-,-,-,DE-6	61543-0106-00
413	AC66-32223A	BRAKE-MAIN(T);DURACON(M904-44),-,-,-,-,-	62614-0022-00
414	AC66-30120A	BRAKE-SOFT T (ASSY);-,-,-,-,DE-6,-	62614-0033-00
415	AC66-30093A	ARM-TENSION (ASSY);SUS304-CSP POM FELT,-,-,-,DE-6	61543-0139-00
416	AC61-62022A	SPRING-SOFT BRAKE(S);-,SUS304,-,-,-,-,-	62724-0273-00
417	AC61-62023A	SPRING-TENSION;-,SUS304-WPB,-,-,-,-,-	62724-0274-00

6-6 EVF (VP-K80)

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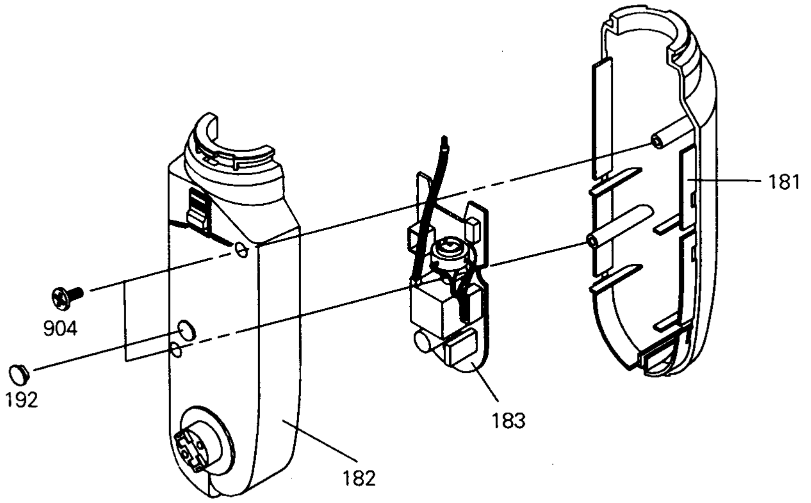
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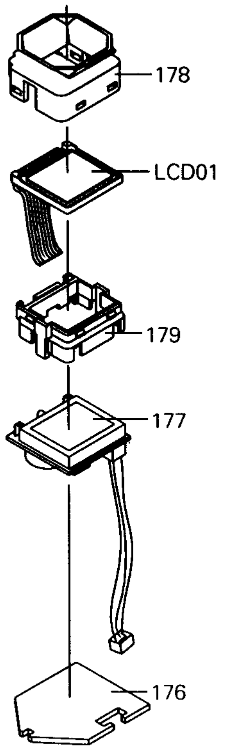
Loc. No	New Part No	Description and Specification	Old Part No
180	AD90-10800D	ASSY-EVF;VP-K80,S8C PAL	-
183	AD90-10800X	ASSY-EVF BOARD;VP-K80,PAL	-
184	AD90-10802A	ASSY-CRT;VP-K80,-	-
185	AD98-12001D	ASSY-RING EVF;VP-K70/SEG,-	-
181	AD64-30012A	CASE-LEFT EVF;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0280-00
182	AD64-30024A	CASE-RIGHT EVF;ABS 94,HB,-,BLACK,-,-,-,VN-F35	62032-0281-00
186	AC61-51059A	GUIDE-LENS;ABS 94,HB,T 1.2,BLK,-,VP-K70,-	63353-0106-00
187	AC60-40034A	RING-EVF;-,ID 18,OD 30,-,ABS 94,-	60573-0030-00
188	AC61-20179A	HOLDER-LENS;ABS 94,HB,BLK,-,VP-K70,-	63323-0479-00
189	AC61-60094A	SPRING;PS,STS301 3/4H,T0.3,D1.5,L26.6	62724-0180-00
190	AC61-20158A	HOLDER-EYE CUP;ABS 94,HB,BLK,-,VP-K70,-	63323-0453-00
191	AC64-10172A	KNOB-RUBBER-EYE CUP;SILICON,-,BLK,-,VP-K70,-	63394-0108-00
192	AD61-20918A	CAP-FOCUS;-,MBR,-,BLK,-,VP-K70	-
904	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	67128-521-206

6-7 CVF (VP-K85)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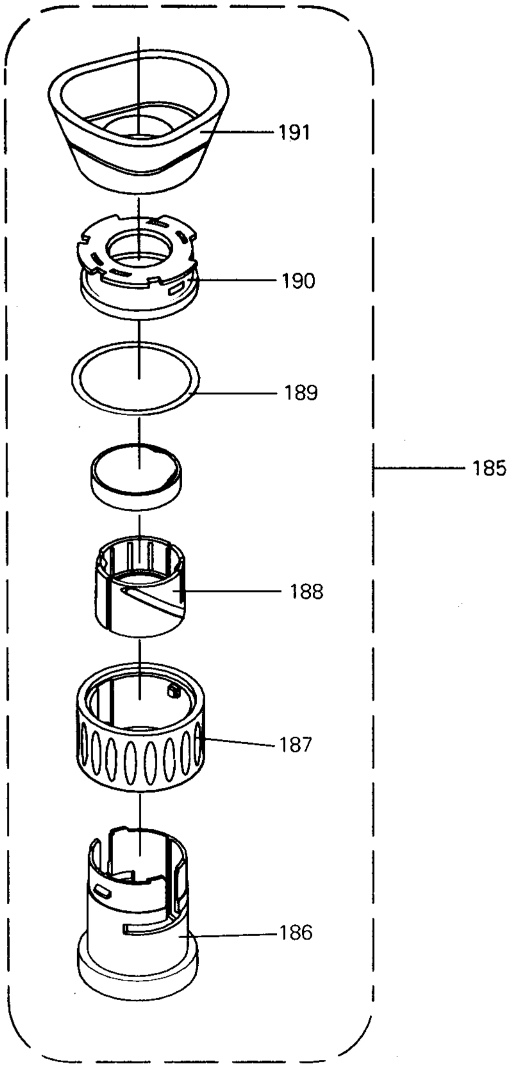

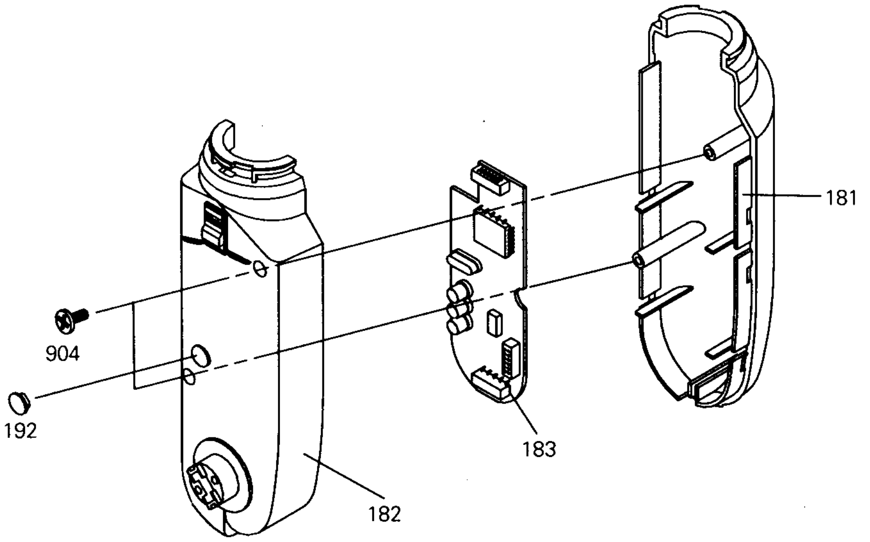

Loc. No	New Part No	Description and Specification	Old Part No
180	AD90-10800E	ASSY-CVF;VP-K85,S8C PAL	-
176	AD90-10802E	ASSY-CVF DRIVE BOARD;VP-K80/SEG,-	-
177	AC90-10011T	ASSY B/L BOARD;VN-K75 NTSC,-	69063-215-032
178	AD61-20015A	HOLDER-LCD;ABS 94,HB,-,BLACK,VP-K85,-	63323-0532-00
179	AC61-20173A	HOLDER-LIGHT;ABS 94,HB,BLK,-,VP-K75,-	63323-0472-00
181	AD64-30012B	CASE-CVF LEFT;-,ABS94,V0,-,-,-,-,VP-K85/SEG	-
182	AD64-30024A	CASE-RIGHT EVF;ABS 94,HB,-,BLACK,-,-,-,VN-F35	62032-0281-00
183	AD90-10800Y	ASSY-CVF PROCESS;VP-K85,PAL	-
185	AD98-12001D	ASSY-RING EVF;VP-K70/SEG,-	-
186	AC61-51059A	GUIDE-LENS;ABS 94,HB,T 1.2,BLK,-,VP-K70,-	63353-0106-00
187	AC60-40034A	RING-EVF;-,ID 18,OD 30,-,ABS 94,-	60573-0030-00
188	AC61-20179A	HOLDER-LENS;ABS 94,HB,BLK,-,VP-K70,-	63323-0479-00
189	AC61-60094A	SPRING;PS,STS301 3/4H,T0.3,D1.5,L26.6	62724-0180-00
190	AC61-20158A	HOLDER-EYE CUP;ABS 94,HB,BLK,-,VP-K70,-	63323-0453-00
191	AC64-10172A	KNOB-RUBBER-EYE CUP;SILICON,-,BLK,-,VP-K70,-	63394-0108-00
192	AD61-20918A	CAP-FOCUS;-,MBR,-,BLK,-,VP-K70	-
904	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	67128-521-206
LCD01	AC07-10001L	LCD DISPLAY;LCX005BKB,COLOR,537*222,0.5 IN	B4155-0087

Memo

7. Electrical Parts List

Note: According to the change of Part-No system, old and new parts are listed in this service manual together.
When ordering a service part, be sure to use the only new part.

Loc. No	New Part No	Description and Specification	Old Part No
171	**AC90-10017G**	**ASSY-DC/DC BOARD**	**69063-215-160**
C902	2402-000160	C-AL,SMD;47UF,20%,16V,WT,6.6X6.6MM,2.2M	61454-244-471
C903	2402-000160	C-AL,SMD;47UF,20%;16V,WT,6.6X6.6MM,2.2M	61454-244-471
C904	B1100-0674	C-CERAMIC,CHIP;CK 73 Y5V 16V T 685-Z C3225	-
C905	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
C906	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C907	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C908	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C909	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
C910	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C912	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C914	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C915	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
C916	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
C917	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
C918	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C919	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C920	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C921	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
C922	B1100-0674	C-CERAMIC,CHIP;CK 73 Y5V 16V T 685-Z C3225	-
C923	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C924	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C925	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C926	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C927	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C928	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C929	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1 6MM,TP	61454-153-330
C930	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	61454-154-472
C931	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
C932	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	61454-153-331
C933	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	61454-153-391
C934	2203-002220	C-CERAMIC,CHIP;56PF,0.05,50V,CH,1608,-,TP	61454-153-560
C935	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	61454-153-331
C936	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	61454-154-222
C937	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C938	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
C940	2203-001598	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,2012,2MM	A1100-0675
C941	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	61454-154-682
C942	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C943	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C944	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	61454-154-682
C945	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C946	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C948	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CN901	3710-001053	CONNECTOR-SOCKET;34P,2R,0.8MM,SMD-S,SN	
CN902	3711-002138	CONNECTOR-HEADER;BOX,2P,1R,2.0,ANGLE,SN	B6010-1745
D901	0404-000150	DIODE-SCHOTTKY;EC10QS04,40V,1A,SMD,TP	B4112-0022
D902	0407-001013	DIODE-ARRAY;MA160A,80V,100MA,CX2,SOT-143,T	B4100-0046
IC901	1203-000445	IC-PWM CONTROLLER;14641,QFP,48P,-,PLASTIC,13V,69	B4012-0562
IC902	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	B4008-1128
IC903	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	B4008-1128

Loc. No	New Part No	Description and Specification	Old Part No
J902	AC98-10012R	ASSY-LITHIUM;CS96,-	69063-215-063
L901	2703-000402	INDUCTOR-SMD;1UH,20%,3.2X2.5X2.2MM	B1160-0013
L902	2703-000402	INDUCTOR-SMD;1UH,20%,3.2X2.5X2.2MM	B1160-0013
L903	2703-000350	INDUCTOR-SMD;10UH,20%,7.3X7.3X4.75MM	B1144-0022
L904	2703-000352	INDUCTOR-SMD;22UH,20%,7.3X7.3X4.75MM	B1144-0023
L905	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
L906	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
L907	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
L908	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
L909	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
L910	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
L911	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
L912	2703-000402	INDUCTOR-SMD;1UH,20%,3.2X2.5X2.2MM	B1160-0013
L913	2703-000351	INDUCTOR-SMD;100UH,20%,7.3X7.3X4.75MM	B1144-0032
L914	2703-000351	INDUCTOR-SMD;100UH,20%,7.3X7.3X4.75MM	B1144-0032
L915	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
L916	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L917	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L918	2703-000408	INDUCTOR-SMD;3.3UH,20%,3.2X2.5X2.2MM	B1160-0018
⚠ PS901	B3065-0167	FUSE;FSF 125V 2.0A 6.1MM UL/CSA 451002 C	-
⚠ PS902	B3065-0167	FUSE;FSF 125V 2.0A 6.1MM UL/CSA 451002 C	-
Q901	0502-000432	TR-POWER;2SB1302,PNP,-25V,-20V,-5A,1.3W	A4050-0098
Q902	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q903	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,-30V,-25V,-2A,500M	62129-301-120
Q904	0501-000681	TR-SMALL SIGNAL;FP101,PNP,-30V,-25V,-2A,1.3W,P	B4056-0032
Q905	0501-000681	TR-SMALL SIGNAL;FP101,PNP,-30V,-25V,-2A,1.3W,P	B4056-0032
Q906	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,-30V,-25V,-2A,500M	62129-301-120
R901	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R902	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R903	2007-001644	R-CHIP;10KOHM,0.5%,1/16W,DA,TP,1608	B1020-0702
R905	2007-000704	R-CHIP;3.6KOHM,5%,1/16W,DA,TP,1608	A1020-0552
R906	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R907	2007-000575	R-CHIP;220OHM,5%,1/8W,DA,TP,3216	61079-217-221
R908	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
R909	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R910	2007-000575	R-CHIP;220OHM,5%,1/8W,DA,TP,3216	61079-217-221
R911	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R912	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R914	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R915	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	61079-918-823
R916	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R917	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R919	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
R922	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R923	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R924	2007-001695	R-CHIP;22KOHM,0.5%,1/16W,DA,TP,1608	B1020-0714
R925	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R926	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R927	2007-001114	R-CHIP;680KOHM,5%,1/16W,DA,TP,1608	61079-918-684
R929	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R930	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R931	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R932	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
R933	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R934	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R935	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R936	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R937	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	61079-918-823

Loc. No	New Part No	Description and Specification	Old Part No
R940	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R941	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R942	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R943	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
R944	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R945	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R946	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R947	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R948	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
R949	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R950	2007-001691	R-CHIP;33KOHM,0.5%,1/16W,DA,TP,1608	B1020-0703
R951	2007-001697	R-CHIP;18KOHM,0.5%,1/16W,DA,TP,1608	B1020-0719
SW901	3408-000297	SWITCH-SLIDE;5V,1A,-,-	B3006-0057
SW902	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW903	3408-001002	SWITCH-SLIDE;12V,100MA,SPDT,ON-ON	-
SW904	3404-000123	SWITCH-TACT;12V,50MA,100GF,6X6MM,-	63519-105-101
SW905	3404-000123	SWITCH-TACT;12V,50MA,100GF,6X6MM,-	63519-105-101
⚠ T901	AC26-22002C	TRANS-SWITCHING;CMS64,-,-,T,-,-,-	B1206-0099
VR901	2104-000115	VR-SMD;1KOHM,25%,0.15W,TOP	B1056-0044
VR902	2104-000115	VR-SMD;1KOHM,25%,0.15W,TOP	B1056-0044
168	**AD90-10800A**	**ASSY-A/V JACK BOARD**	**-**
CN701	3711-000634	CONNECTOR-HEADER;BOX,12P,1R,1.25MM,ANGLE,SN	B6010-0503
L711	66639-0003-00	FERRITE-BEAD INDUCTOR;NI-ZN FERRITE K150 BI3857	-
SW701	63599-016-081	SW-TACT;EVQ-QSU04W	-
VR701	2101-000300	VR-ROTARY;50KOHM,30%,0.03W,TOP	B1046-0009
		ASSY-LIGHT BOARD	
CN871	3711-002049	CONNECTOR-HEADER;NOWALL,6P,1R,1.25MM,STRAIGHT,SN	B6010-0847
CN872	3711-000541	CONNECTOR-HEADDER;4WALL,2P,1R,1.25MM,SMD,SN	B6010-1563
119	**AC90-10017F**	**ASSY-FUNCTION BOARD**	**69063-215-161**
BA450A	AD63-40012A	TERMINAL-ASSY;BE-CU/BSBM,-,T0.3,-,-	63063-0037-00
BA450B	AD63-40012A	TERMINAL-ASSY;BE-CU/BSBM,-,T0.3,-,-	63063-0037-00
BA450C	AD63-40014A	TERMINAL-I/O PORT;C7351P-0,-,-,-,-	63064-0036-00
C450	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CN451	3708-000382	CONNECTOR-FPC/FC/PIC;16P,1.0MM,ANGLE,SN	B6013-0938
CN452	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	B6010-0778
CN453	3711-002138	CONNECTOR-HEADER;BOX,2P,1R,2.0,ANGLE,SN	B6010-1745
R450	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R451	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	A1020-0369
R452	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	61079-916-333
R453	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	A1020-0412
R454	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	61079-916-333
R455	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
R456	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R457	2007-000635	R-CHIP;270KOHM,5%,1/10W,DA,TP,2012	61079-917-274
R458	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
R459	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
R460	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R461	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	A1020-0369
R462	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	61079-916-333
R463	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	61079-916-333
R464	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	A1020-0412
R465	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
SW450	3408-000299	SWITCH-SLIDE;5V,1A,-,-	B3006-0060
SW451	3406-000173	SWITCH-ROTARY;16VDC,100MA,10P10T,5.4MM	B3012-0024
SW452	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW453	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW454	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW455	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084

Loc. No	New Part No	Description and Specification	Old Part No
SW456	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW457	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
SW458	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084
170	**AC90-10017E**	**ASSY-MAIN BOARD**	**69063-215-162**
		VCR MAIN BLOCK	
		SYSTEM CONTROL/SERVO PARTS	
C501	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C502	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C503	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C504	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	61454-154-472
C505	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C506	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C507	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C508	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C509	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C510	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C511	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C512	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C513	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	61454-154-222
C514	2203-001693	C-CERAMIC,CHIP;820NF,10%,50V,X7R,1608,1.6MM,T	61454-154-821
C515	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	61454-153-391
C516	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
C517	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C518	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C519	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C520	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C521	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C523	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C524	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C525	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C526	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C527	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	61454-153-331
C529	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C530	2203-001603	C-CERAMIC,CHIP;220NF,10%,16V,X7R,2012,2MM,TP	A1100-0833
C531	2203-001603	C-CERAMIC,CHIP;220NF,10%,16V,X7R,2012,2MM,TP	A1100-0833
C532	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
C533	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
C534	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
C535	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C536	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C537	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C538	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C539	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C540	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C541	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C542	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C543	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
C544	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C545	2402-001010	C-AL,SMD;47UF,20%,16V,GP,6.6X6.6X5.4MM,	-
C546	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C547	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C554	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C555	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C601	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C602	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C603	2402-001009	C-AL,SMD;100UF,20%,6.3V,GP,5.3X5.3X5.4M	-
C604	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C605	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630

Loc. No	New Part No	Description and Specification	Old Part No
C606	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	A1106-0149
C607	2203-001598	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,2012,2MM	A1100-0675
C608	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C609	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
C610	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
C611	2203-001573	C-CERAMIC,CHIP;12PF,5%,50V,CH,1608,1.6MM,TP	61454-153-120
C612	2203-001573	C-CERAMIC,CHIP;12PF,5%,50V,CH,1608,1.6MM,TP	61454-153-120
C613	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C614	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C615	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C616	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C617	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C618	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C623	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
C624	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C625	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C626	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C627	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C629	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
CN501	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5MM,SMD-S,SN	B6010-1089
CN502	3711-003128	CONNECTOR-HEADER;-,34P,2R,0.8MM,SMD-S,SN	-
CN503	3711-002130	CONNECTOR-HEADER;BOX,48P,2R,0.8,ANGLE,SN	B6010-1743
CTP501	3710-000396	CONNECTOR-SOCKET;30P,2R,0.8MM,STRAIGHT,SN	B6010-0894
D601	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
IC501	AC14-12005J	IC-LOGIC;KA8322,QFP,-	A4004-0197
IC502	AC14-12009S	IC-DRIVE;TPIC1327DF,SOP,-	B4008-0916
IC503	AC14-12009K	IC;LB1851M,QFP,-	B4008-0870
IC504	AC14-12007Q	IC-LOGIC;BA6285FS,SOP,-	B4004-0198
IC601	AC09-12014L	IC-MCU;CXP807P40Q VP-J52,QFP,VP-J52	B4002-0570
IC602	AC14-12012F	IC;S-8420BF-T1,SOP,-	B4008-1038
L601	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L602	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L603	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L604	2703-000388	INDUCTOR-SMD;470UH,5%,3.2X2.5X2.2MM	B1160-0038
Q501	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	A4050-0138
Q502	0504-000110	TR-DIGITAL;DTC114EU,NPN,200MW,10K-10K,SC-	A4050-0131
Q503	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q504	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q505	0506-000132	TR-ARRAY;IMT1,PNP,2,-50V,-40V,-100MA,30	B4050-0067
Q601	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q602	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q603	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
Q604	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q605	0502-000432	TR-POWER;2SB1302,PNP,-25V,-20V,-5A,1.3W	A4050-0098
R501	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	61079-918-123
R502	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R503	2007-000065	R-CHIP;2.2MOHM,5%,1/16W,DA,TP,1608	61079-918-225
R504	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R505	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R506	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R507	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R508	2007-001114	R-CHIP;680KOHM,5%,1/16W,DA,TP,1608	61079-918-684
R509	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R510	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R511	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R512	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R513	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R514	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	61079-918-331

Loc. No	New Part No	Description and Specification	Old Part No
R515	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R516	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R517	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R518	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R519	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
R525	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R528	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R529	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R530	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R531	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R532	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	61079-918-292
R533	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	61079-918-292
R534	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	61079-918-292
R535	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
R536	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R537	2007-000093	R-CHIP;20KOHM,5%,1/16W,DA,TP,1608	A1020-0430
R538	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R539	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R540	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
R541	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R542	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R543	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R544	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R545	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	61079-917-331
R546	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	61079-917-010
R547	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	61079-917-010
R548	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	61079-917-010
R549	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	61079-917-010
R550	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R551	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R552	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R553	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R554	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R555	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R556	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
R556	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R557	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R558	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R559	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
R560	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R561	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	61079-918-331
R562	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R563	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R564	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R565	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	61079-918-123
R566	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020—0136
R569	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020—0136
R570	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R601	2007-001700	R-CHIP;330KOHM,0.5%,1/16W,DA,TP,1608	B1020—0845
R602	2007-001693	R-CHIP;15KOHM,0.5%,1/16W,DA,TP,1608	B1020—0712
R603	2007-001700	R-CHIP;330KOHM,0.5%,1/16W,DA,TP,1608	B1020—0845
R604	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R605	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R606	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R607	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R608	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R609	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R610	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224

Loc. No	New Part No	Description and Specification	Old Part No
R611	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R612	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R613	2007-001644	R-CHIP;10KOHM,0.5%,1/16W,DA,TP,1608	B1020-0702
R614	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	B1020-0705
R615	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R616	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R617	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R618	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R619	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R620	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216	61079-217-101
R621	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R623	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	B1020-0705
R624	2007-001697	R-CHIP;18KOHM,0.5%,1/16W,DA,TP,1608	B1020-0719
R625	2007-001691	R-CHIP;33KOHM,0.5%,1/16W,DA,TP,1608	B1020-0703
R628	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R629	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	B1020-0705
R630	2007-000065	R-CHIP;2.2MOHM,5%,1/16W,DA,TP,1608	61079-918-225
R631	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R632	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R633	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R634	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R639	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R640	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R641	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R642	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R643	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R644	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R645	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R646	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R647	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R649	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R652	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	B1020-0705
R653	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	B1020-0705
R656	2007-001691	R-CHIP;33KOHM,0.5%,1/16W,DA,TP,1608	B1020-0703
R658	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	61079-917-331
R660	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R661	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R662	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
R663	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
R665	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R666	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R667	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	61079-917-101
R668	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R669	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R670	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R671	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R672	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R673	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R674	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R675	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
R676	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R677	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R678	2007-000635	R-CHIP;270KOHM,5%,1/10W,DA,TP,2012	61079-917-274
R679	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RM605	2011-000768	R-NETWORK;100KOHM,5%,1/16W,L,CHIP,8P,ST	B1018-0042
RM606	2011-000004	R-NETWORK;10KOHM,5%,1/16W,L,CHIP,8P,ST	B1018-0041
RM607	2011-000004	R-NETWORK;10KOHM,5%,1/16W,L,CHIP,8P,ST	B1018-0041
SW603	3404-000276	SWITCH-TACT;15VDC,20MA,100GF,4.9X4.9X1.5MM	B3018-0084

Loc. No	New Part No	Description and Specification	Old Part No
SW604	3403-000126	SWITCH-PUSH;12V,100MA,-,-	B3000-0033
SW605	3403-000126	SWITCH-PUSH;12V,100MA,-,-	B3000-0033
SW606	3403-000126	SWITCH-PUSH;12V,100MA,-,-	B3000-0033
SW607	3403-000126	SWITCH-PUSH;12V,100MA,-,-	B3000-0033
XT601	2801-001449	CRYSTAL-SMD;32.768KHZ,20PPM,28-AAW,12.5PF,	B1280-0229
XT602	2801-001414	CRYSTAL-SMD;11.71875MHZ,50PPM,CX-5F,12PF,9	B1280-0259
		VIDEO PARTS	
C101	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C102	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C103	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C104	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C105	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C106	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C107	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C108	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C109	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C110	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C111	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
C112	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C113	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C114	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C115	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C116	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C117	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C118	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C119	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C120	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C121	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C122	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C123	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C124	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C125	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C126	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C127	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C128	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	61454-153-151
C129	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C130	2203-001686	C-CERAMIC,CHIP;75PF,5%,50V,CH,1608,1.6MM,TP	61454-153-750
C131	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C132	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C133	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C201	2404-000179	C-TA,CHIP;220NF,20%,35V,-,3216,-,TP	A1106-0107
C202	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,-,-,TP	61619-910-339
C203	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C204	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C205	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C206	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	61454-154-682
C207	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C208	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C209	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C210	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	61454-153-270
C211	2203-001121	C-CERAMIC,CHIP;680NF,10%,50V,X7R,1608,-,TP	61454-154-681
C212	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C213	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C216	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C218	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C219	2203-001083	C-CERAMIC,CHIP;5PF,0.1PF,50V,NPO,1608,-,TP	61454-153-050
C220	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C221	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103

Loc. No	New Part No	Description and Specification	Old Part No
C222	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C223	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
C224	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	A1106-0149
C226	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
C226	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
C227	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C228	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C229	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C230	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C231	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C233	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C234	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C235	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C236	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C237	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C238	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C239	2203-001121	C-CERAMIC,CHIP;680NF,10%,50V,X7R,1608,-,TP	61454-154-681
C240	2404-000179	C-TA,CHIP;220NF,20%,35V,-,3216,-,TP	A1106-0107
C241	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,-,-,TP	61619-910-339
C242	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C243	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C244	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C245	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C246	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
C247	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C248	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C249	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,-,-,TP	61619-910-339
C250	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C251	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
C252	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C253	2402-001008	C-AL,SMD;220UF,20%,4V,-,6.6X6.6X5.4MM,2	-
C254	2402-000149	C-AL,SMD;4.7UF,20%,25V,GP,-,-,TP	61619-908-479
C255	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C256	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
C258	2203-000384	C-CERAMIC,CHIP;15PF,5%,50V,CH,1608,-,TP	61454-153-150
C259	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
C261	2203-001568	C-CERAMIC,CHIP;110PF,5%,50V,CH,1608,1.6MM,TP	61454-153-111
C262	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	61454-153-331
C263	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C264	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	61454-153-270
C265	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C269	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C270	2203-001616	C-CERAMIC,CHIP;270PF,5%,50V,CH,1608,1.6MM,TP	61454-153-271
C271	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C272	2203-001686	C-CERAMIC,CHIP;75PF,5%,50V,CH,1608,1.6MM,TP	61454-153-750
C273	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
C274	2203-001616	C-CERAMIC,CHIP;270PF,5%,50V,CH,1608,1.6MM,TP	61454-153-271
C275	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C277	2203-000929	C-CERAMIC,CHIP;470NF,10%,50V,X7R,1608,-,TP	61454-154-471
C278	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C279	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C280	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C282	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C283	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	61454-153-390
C284	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C286	2203-001697	C-CERAMIC,CHIP;82PF,5%,50V,CH,1608,1.6MM,TP	61454-153-820
C287	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C289	2203-001703	C-CERAMIC,CHIP;560PF,10%,50V,X7R,1608,-,TP	61454-154-561

Loc. No	New Part No	Description and Specification	Old Part No
C290	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C291	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C293	2203-001573	C-CERAMIC,CHIP;12PF,5%,50V,CH,1608,1.6MM,TP	61454-153-120
C294	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C295	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C296	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C297	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
C298	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C301	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C320	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C321	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C322	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C323	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C324	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C325	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C326	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C327	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C328	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	61454-153-270
C329	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
C330	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
C331	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
C332	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C333	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
C334	2203-001683	C-CERAMIC,CHIP;68PF,5%,50V,CH,1608,1.6MM,TP	61454-153-680
C335	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C336	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C337	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
C338	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	61454-153-180
C339	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	61454-153-270
C340	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	61454-153-101
C341	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	61454-153-270
C350	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C351	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C352	2203-001568	C-CERAMIC,CHIP;110PF,5%,50V,CH,1608,1.6MM,TP	61454-153-111
C353	2402-000149	C-AL,SMD;4.7UF,20%,25V,GP,-,-,TP	61619-908-479
C354	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C355	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C356	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	61454-153-391
C357	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
C360	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
C361	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
C362	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C364	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C401	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C402	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
C403	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
C404	2203-001699	C-CERAMIC,CHIP;8PF,0.5PF,50V,CH,1608,1.6MM,TP	61454-153-080
C406	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CN101	AC41-22065A	FPC-CONNECTOR;00-6200-511-130-000,-,-,-	66049-0065-00
CN201	3711-002046	CONNECTOR-HEADER;NOWALL,12P,1R,1.25MM,STRAIGHT,	B6010-1798
D201	0407-000115	DIODE-ARRAY;DAN202U,80V,100MA,CA2-3,SC-70,	A4114-0011
D202	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
D204	0407-000145	DIODE-ARRAY;DCC010,-80V,100MA,C2-3,SOT-23,	62169-901-062
D301	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
D350	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
D401	0407-000115	DIODE-ARRAY;DAN202U,80V,100MA,CA2-3,SC-70,	A4114-0011
D402	0407-000115	DIODE-ARRAY;DAN202U,80V,100MA,CA2-3,SC-70,	A4114-0011
IC101	AC14-12003D	IC-FP;CXA1202R-T3,-,-	62119-121-033

Loc. No	New Part No	Description and Specification	Old Part No
IC201	1204-000326	IC-VIDEO PROCESS;AN2491FHP,QFP,64P,-,PLASTIC,5.	B4012-0558
IC302	AC14-12014F	IC-CCD;CXL1506N,VSOP,-	B4014-0050
IC303	AC14-12012S	IC;M52358VP,SOP,-	B4008-1124
IC401	AC14-12011J	IC;BU6199FS,SOP,TAPE	B4008-1261
IC402	AC14-12009X	IC;MB88346B,VSOP,-	B4008-0983
L101	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L102	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
L103	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	B1160-0030
L201	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
L203	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L204	2703-000364	INDUCTOR-SMD;100UH,5%,2.5X2X1.8MM	B1160-0035
L205	2703-000226	INDUCTOR-SMD;56UH,5%,2.5X3.2X2.2MM	62429-962-561
L207	2703-000372	INDUCTOR-SMD;56UH,5%,2.5X2X1.8MM	B1160-0033
L208	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	B1160-0030
L209	2703-000187	INDUCTOR-SMD;3.3UH,5%,2X2.5X1.8MM	B1160-0051
L210	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L212	2703-000372	INDUCTOR-SMD;56UH,5%,2.5X2X1.8MM	B1160-0033
L260	2703-000364	INDUCTOR-SMD;100UH,5%,2.5X2X1.8MM	B1160-0035
L261	2703-000379	INDUCTOR-SMD;150UH,5%,3.2X2.5X2.2MM	62429-962-152
L262	2703-000385	INDUCTOR-SMD;330UH,5%,3.2X2.5X2.2MM	B1160-0037
L263	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L265	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	B1160-0032
L266	2703-000379	INDUCTOR-SMD;150UH,5%,3.2X2.5X2.2MM	62429-962-152
L267	2703-000385	INDUCTOR-SMD;330UH,5%,3.2X2.5X2.2MM	B1160-0037
L268	2703-000381	INDUCTOR-SMD;180UH,5%,3.2X2.5X2.2MM	62429-962-181
L269	2703-000372	INDUCTOR-SMD;56UH,5%,2.5X2X1.8MM	B1160-0033
L271	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L320	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L321	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L322	2703-000371	INDUCTOR-SMD;4.7UH,5%,2.5X2X1.8MM	B1160-0028
L323	2703-000371	INDUCTOR-SMD;4.7UH,5%,2.5X2X1.8MM	B1160-0028
L324	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	B1160-0032
L325	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	B1160-0032
L326	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	B1160-0030
L350	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L401	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
L402	2703-000226	INDUCTOR-SMD;56UH,5%,2.5X3.2X2.2MM	62429-962-561
L403	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
Q101	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q102	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	B4056-0046
Q103	0506-000148	TR-ARRAY;UMT2N,PNP,2,-50V,-40V,-100MA,3	B4056-0044
Q201	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
Q202	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q203	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q204	0501-000207	TR-SMALL SIGNAL;2SC3142,NPN,25V,20V,30MA,150MW	62129-301-116
Q205	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q206	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q207	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q208	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q209	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q212	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q213	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	B4056-0046
Q260	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q262	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q263	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q264	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	A4050-0138
Q265	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q301	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122

Loc. No	New Part No	Description and Specification	Old Part No
Q302	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q320	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q321	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q322	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q323	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q324	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	B4056-0045
Q350	0506-000146	TR-ARRAY;UMH6N,NPN,2,50V,40V,30MA,300MW	B4050-0145
Q351	0506-000146	TR-ARRAY;UMH6N,NPN,2,50V,40V,30MA,300MW	B4050-0145
Q352	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q353	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q354	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q355	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q381	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
Q382	0504-000177	TR-DIGITAL;DTC143EUA,NPN,200MW,4.7K/4.7K,	62129-303-013
Q383	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
R101	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R102	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R103	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R104	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R105	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R106	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R107	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R108	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R109	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	61079-918-822
R110	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R111	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
R112	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R113	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R114	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R115	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
R116	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R117	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R118	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R119	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R120	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R121	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
R122	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R123	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
R124	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R125	2007-000071	R-CHIP;22OHM,5%,1/16W,DA,TP,1608	61079-918-220
R126	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
R127	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R201	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R204	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R205	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R206	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R207	2007-001167	R-CHIP;75OHM,5%,1/16W,DA,TP,1608	61079-918-750
R208	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R209	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R210	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R211	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R212	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
R213	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R214	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R215	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R216	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
R217	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R218	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223

Loc. No	New Part No	Description and Specification	Old Part No
R219	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	61079-918-822
R220	2007-000080	R-CHIP;2KOHM,5%,1/16W,DA,TP,1608	61079-918-202
R221	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R222	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R223	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R225	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R227	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R228	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R230	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	61079-918-390
R231	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R232	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R233	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R234	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
R236	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	A1020-0591
R240	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R243	2007-000116	R-CHIP;120OHM,5%,1/16W,DA,TP,1608	61079-918-121
R244	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
R246	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R247	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R248	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
R249	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
R250	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
R254	2007-000402	R-CHIP;150OHM,5%,1/16W,DA,TP,1608	61079-918-151
R256	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R257	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R258	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R259	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R260	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R261	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R262	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R264	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R265	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R266	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	61079-918-331
R267	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R268	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	61079-918-474
R269	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R270	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R275	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R276	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
R277	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
R278	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R279	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R280	2007-000402	R-CHIP;150OHM,5%,1/16W,DA,TP,1608	61079-918-151
R281	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
R282	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R283	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R284	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R285	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
R286	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R287	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R288	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
R289	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
R292	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	61079-918-331
R293	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R294	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R296	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R299	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R301	2007-000695	R-CHIP;3.3OHM,5%,1/16W,DA,TP,1608	61079-918-339

Loc. No	New Part No	Description and Specification	Old Part No
R302	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R303	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R304	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R306	2007-001167	R-CHIP;75OHM,5%,1/16W,DA,TP,1608	61079-918-750
R315	2007-000763	R-CHIP;330OHM,1%,1/16W,DA,TP,1608	A1020-0635
R320	2007-001026	R-CHIP;560KOHM,5%,1/16W,DA,TP,1608	61079-918-564
R322	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R324	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	61079-918-823
R325	2007-000116	R-CHIP;120OHM,5%,1/16W,DA,TP,1608	61079-918-121
R326	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R327	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R328	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R329	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R330	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	61079-918-390
R331	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
R332	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R333	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R334	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
R335	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R336	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R337	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R338	2007-000512	R-CHIP;2.4KOHM,5%,1/16W,DA,TP,1608	61079-918-242
R339	2007-001134	R-CHIP;68OHM,5%,1/16W,DA,TP,1608	61079-918-680
R340	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R341	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
R342	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
R343	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R344	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R346	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R350	2007-000116	R-CHIP;120OHM,5%,1/16W,DA,TP,1608	61079-918-121
R351	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R352	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R353	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
R354	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R355	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R357	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	61079-918-391
R358	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R361	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R362	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R363	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R364	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R365	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R366	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R367	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R368	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R369	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R370	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R371	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R372	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R381	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R382	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
R384	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R385	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
R401	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R402	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	61079-918-123
R404	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R405	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R408	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102

Loc. No	New Part No	Description and Specification	Old Part No
R409	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
R410	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	61079-918-123
R412	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R414	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
VR301	2104-000122	VR-SMD;500OHM,25%,0.15W,TOP	B1056-0052
X201	2801-001437	CRYSTAL-SMD;4.433619MHZ,20PPM,28-AAE,16PF,	B1280-0257
AUDIO PARTS			
C701	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
C702	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C703	2402-000187	C-AL,SMD;220NF,20%,50V,-,-,-,TP	61619-911-228
C704	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C705	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	61454-154-472
C706	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,TP	A1100-0676
C707	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
C708	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C709	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C710	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,TP	A1100-0676
C711	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C712	2402-001009	C-AL,SMD;100UF,20%,6.3V,GP,5.3X5.3X5.4M	-
C713	2404-000216	C-TA,CHIP;3.3UF,20%,6.3V,-,3216,-,TP	A1106-0008
C714	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C715	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	A1100-0268
C716	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C717	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C718	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C719	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	A1100-0268
C720	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C721	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C722	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C723	2404-000216	C-TA,CHIP;3.3UF,20%,6.3V,-,3216,-,TP	A1106-0008
C724	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C725	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,TP	A1100-0676
C726	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C727	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C728	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
C729	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,TP	A1100-0676
C730	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	61454-154-472
C732	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C733	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C734	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C735	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C736	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C737	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	-
C738	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	A1100-0776
C739	2402-000187	C-AL,SMD;220NF,20%,50V,-,-,-,TP	61619-911-228
C742	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C743	2404-000250	C-TA,CHIP;470NF,20%,25V,-,3216,-,TP	A1106-0090
C744	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
C747	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C748	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
IC710	1204-000327	IC-AUDIO PROCESSOR;AN3988HFHP,SOP,64P,-,PLASTIC,5	B4012-0560
L701	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
Q701	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
Q701	0504-000110	TR-DIGITAL;DTC114EU,NPN,200MW,10K-10K,SC-	A4050-0131
Q702	0506-000143	TR-ARRAY;UMD3N,NPN/PNP,1,50V,40V,100MA,	B4050-0048
Q703	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q704	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q705	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124

Loc. No	New Part No	Description and Specification	Old Part No
Q706	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q708	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
Q710	0504-000110	TR-DIGITAL;DTC114EU,NPN,200MW,10K-10K,SC-	A4050-0131
Q711	0504-000110	TR-DIGITAL;DTC114EU,NPN,200MW,10K-10K,SC-	A4050-0131
Q712	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q713	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
Q714	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q715	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
Q716	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
R701	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
R702	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
R703	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R704	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R705	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
R706	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
R707	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R708	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
R709	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R710	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R711	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R712	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R713	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	61079-918-123
R714	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R715	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
R717	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R718	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R719	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R720	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
R721	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	61079-918-562
R722	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
R723	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R724	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R725	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
R726	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R729	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	61079-918-181
R730	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
R731	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R732	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R733	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R734	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	61079-918-181
R735	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	61079-918-474
R736	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
R737	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	61079-918-271
R738	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R739	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R740	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	61079-918-474
R741	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	61079-918-474
R742	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R743	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R745	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R746	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R747	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R748	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R751	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R752	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R753	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R754	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R755	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153

Loc. No	New Part No	Description and Specification	Old Part No
R756	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
R761	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
R763	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
		MIC PARTS	
C801	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C802	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	61454-157-333
C803	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C804	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C805	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C806	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C807	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	A1100-0268
C809	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C810	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C811	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C812	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	A1100-0268
C813	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C814	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	61454-155-223
C815	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	61454-157-333
C816	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
C817	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C818	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C819	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C820	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
C825	2404-000167	C-TA,CHIP;2.2UF,20%,16V,-,3216,-,TP	A1106-0020
C826	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
C827	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CN801	3711-002049	CONNECTOR-HEADER;NOWALL,6P,1R,1.25MM,STRAIGHT,SN	B6010-0847
IC801	AC14-12013J	IC-LINEAR;BA7781K,QFP,TAPE MIC AMP	B4012-0482
L801	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	B1160-0040
R802	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R803	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R804	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R805	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R806	2007-000616	R-CHIP;24KOHM,5%,1/16W,DA,TP,1608	A1020-0453
R809	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R810	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R811	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	61079-918-154
R812	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
R813	2007-000616	R-CHIP;24KOHM,5%,1/16W,DA,TP,1608	A1020-0453
R814	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
R815	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
R816	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R817	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
R819	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R820	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
R821	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
R822	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
		CAMERA MAIN PARTS	
BP01	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-,-	A1247-0050
CA01	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CA02	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CA03	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CA04	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CA05	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CA06	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
CA07	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
CA08	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CA10	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104

Loc. No	New Part No	Description and Specification	Old Part No
CA11	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CA12	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	61454-158-473
CA13	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CA15	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	61454-153-151
CA16	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CA17	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
CA18	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CA19	2203-001598	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,2012,2MM	A1100-0675
CA21	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CA22	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CA70	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CA72	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CA73	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CNP01	3710-000409	CONNECTOR-SOCKET;44P,2R,0.8MM,-,	B6012-0258
CP09	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CP10	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
CP11	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP117	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP118	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CP122	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
CP133	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP139	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP15	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP151	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP154	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP155	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP188	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
CP189	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
CP19	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CP190	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	61454-154-102
CP191	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP192	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP20	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP21	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP22	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CP23	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	61454-153-180
CP25	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP27	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CP28	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP29	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP30	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP31	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
CP32	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP33	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP34	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP36	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP37	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP39	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CP41	2203-001699	C-CERAMIC,CHIP;8PF,0.5PF,50V,CH,1608,1.6MM,TP	61454-153-080
CP42	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CP43	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP44	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP45	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	-
CP46	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CP47	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
CP48	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CP49	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104

Loc. No	New Part No	Description and Specification	Old Part No
CP50	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP51	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	61454-153-180
CP52	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CP53	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	A1106-0153
CP56	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP57	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	61454-153-220
CP59	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
CP61	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	61454-153-100
CP63	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP64	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CP65	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CP66	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CP67	2203-001676	C-CERAMIC,CHIP;62PF,5%,50V,CH,1608,1.6MM,TP	A1100-0754
CTP01	B1111-0025	C-TRIMMER,CERA;TZC03P300A110 CTA 30-6.5PF	-
CTP02	B1111-0025	C-TRIMMER,CERA;TZC03P300A110 CTA 30-6.5PF	-
DA01	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DA02	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DA04	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DP02	0407-000148	DIODE-ARRAY;MA141WK,40V,150MA,CA2-3,SC-70,	62169-901-030
DP03	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DP04	0404-000150	DIODE-SCHOTTKY;EC10QS04,40V,1A,SMD,TP	B4112-0022
DP05	0405-000143	DIODE-VARACTOR;MA341,30V,10NA,MINI-2,TP	62169-901-068
DP06	0405-000143	DIODE-VARACTOR;MA341,30V,10NA,MINI-2,TP	62169-901-068
DP13	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
FLP01	2909-000179	FILTER-LC;4.49MHZ,K5159,-1~1DB,-12DB/10MHZ,-	A1242-0009
FLP02	2909-000183	FILTER-LC;4.49MHZ,-,3.5(35)DB,K5165	A1242-0014
ICA01	AD11-10020C	MASK-ROM;UPD78214-J51-AB8,48P,-,-,-	-
ICA02	AC11-12001G	IC-EEPROM;AT24C02N-10SC,QFP,-	B4000-0212
ICA03	AC14-12009X	IC;MB88346B,VSOP,-	B4008-0983
ICA04	1201-000246	IC-OP AMP;3403,SOP,14P,173MIL,QUAD,20V/M	B4012-0262
ICA05	1201-000203	IC-OP AMP;3414,DIP,8P,300MIL,DUAL,-,PLAS	62119-402-030
ICP01	AC14-12005G	IC-LOGIC;KS7301,QFP,-	A4004-0187
ICP03	AC14-12006J	IC;KA7302,SOP,-	A4008-1069
ICP04	AC14-12006V	IC-LINEAR;KAD0228,SOP,-	A4012-0192
ICP05	1002-000172	IC-D/A CONVERTER;KDA0408,8BIT,QFP,48P,-,-,ST,BI	-
ICP07	AC14-12007W	IC-LOGIC;TC74HC132AFN,SOP,14P	B4004-0384
ICP08	B4004-0340	IC-LOGIC;TC7W04FU-TE12L SOP TAPE 8P	-
LA01	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LA03	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LP01	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LP02	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LP03	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
LP05	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LP06	2703-000372	INDUCTOR-SMD;56UH,5%,2.5X2X1.8MM	B1160-0033
LP08	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	B1160-0032
LP09	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LP10	2703-000373	INDUCTOR-SMD;68UH,5%,2.5X2X1.8MM	B1160-0055
LP12	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
LP13	2703-000373	INDUCTOR-SMD;68UH,5%,2.5X2X1.8MM	B1160-0055
QA01	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
QA02	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123
QA03	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
QA04	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
QA05	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
QA06	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QA07	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
QA08	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	B4050-0088
QA09	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	A4050-0123

Loc. No	New Part No	Description and Specification	Old Part No
QA11	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	B4050-0088
QA13	0504-000211	TR-DIGITAL;DTC143TU,NPN,200MW,4.7K,SC-70,	A4060-0040
QA15	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	B4050-0088
QP04	0506-000135	TR-ARRAY;IMX1,NPN,2,50V,40V,100MA,300MW	62129-303-006
QP05	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	B4050-0088
QP06	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP07	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP08	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP09	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP10	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP104	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP105	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
QP11	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP12	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP13	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP14	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
QP17	0504-000211	TR-DIGITAL;DTC143TU,NPN,200MW,4.7K,SC-70,	A4060-0040
QP18	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,50V,40V,100MA,200M	A4050-0121
RA01	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RA02	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RA04	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RA15	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA16	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RA17	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RA18	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
RA19	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA20	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA21	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RA22	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
RA23	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA25	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RA26	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RA27	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
RA28	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
RA29	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA30	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA31	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
RA32	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA33	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA34	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA35	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RA36	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RA37	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RA38	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA39	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
RA40	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RA41	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RA42	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RA43	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	61079-918-821
RA44	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
RA48	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RA49	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RA51	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA53	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
RA54	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA55	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
RA57	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	61079-918-224
RA58	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136

Loc. No	New Part No	Description and Specification	Old Part No
RA59	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	61079-918-681
RA62	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RA63	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RA64	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RA71	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RA74	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
RA90	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RA91	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RA99	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
RP100	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RP101	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RP102	2007-000929	R-CHIP;470OHM,1%,1/16W,DA,TP,1608	A1020-0650
RP105	2011-000770	R-NETWORK;470OHM,5%,1/16W,L,CHIP,8P,TP	B1018-0092
RP106	2011-000770	R-NETWORK;470OHM,5%,1/16W,L,CHIP,8P,TP	B1018-0092
RP112	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RP129	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP13	B1018-0099	R-NETWORK;RN 1/16 FV 8P 101-J T MNR14-J-101 CS96	-
RP130	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP14	B1018-0099	R-NETWORK;RN 1/16 FV 8P 101-J T MNR14-J-101 CS96	-
RP188	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471
RP189	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP190	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	61079-918-682
RP201	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	61079-918-822
RP26	2007-000455	R-CHIP;18KOHM,1%,1/16W,DA,TP,1608	A1020-0611
RP27	2007-000828	R-CHIP;39KOHM,1%,1/16W,DA,TP,1608	A1020-0643
RP28	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
RP29	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
RP30	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP31	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
RP32	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
RP33	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	61079-918-822
RP35	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RP36	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
RP37	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222
RP38	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RP39	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP40	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RP41	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RP45	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RP46	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RP47	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RP48	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
RP50	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RP51	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RP52	2007-000651	R-CHIP;27KOHM,1%,1/16W,DA,TP,1608	A1020-0627
RP53	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	A1020-0618
RP54	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP55	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	A1020-0591
RP57	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	A1020-0591
RP58	2007-000821	R-CHIP;390OHM,1%,1/16W,DA,TP,1608	A1020-0641
RP59	2007-000256	R-CHIP;1.6KOHM,1%,1/16W,DA,TP,1608	A1020-0607
RP60	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	A1020-0618
RP61	2007-001002	R-CHIP;510OHM,5%,1/16W,DA,TP,1608	A1020-0454
RP62	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	A1020-0618
RP63	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	A1020-0591
RP64	2007-000219	R-CHIP;1.2KOHM,1%,1/16W,DA,TP,1608	A1020-0597
RP65	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP66	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	61079-918-222

Loc. No	New Part No	Description and Specification	Old Part No
RP67	2007-000570	R-CHIP;220OHM,1%,1/16W,DA,TP,1608	A1020-0617
RP68	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	A1020-0591
RP69	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
RP70	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RP71	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RP72	2007-000821	R-CHIP;390OHM,1%,1/16W,DA,TP,1608	A1020-0641
RP73	2007-000929	R-CHIP;470OHM,1%,1/16W,DA,TP,1608	A1020-0650
RP74	2007-000929	R-CHIP;470OHM,1%,1/16W,DA,TP,1608	A1020-0650
RP75	2007-000239	R-CHIP;1.5KOHM,1%,1/16W,DA,TP,1608	A1020-0603
RP76	2007-000256	R-CHIP;1.6KOHM,1%,1/16W,DA,TP,1608	A1020-0607
RP77	2007-001002	R-CHIP;510OHM,5%,1/16W,DA,TP,1608	A1020-0454
RP78	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
RP81	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RP86	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
RP87	2007-001044	R-CHIP;56OHM,5%,1/16W,DA,TP,1608	61079-918-560
RP89	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
RP92	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	A1020-0589
RP93	2007-000402	R-CHIP;150OHM,5%,1/16W,DA,TP,1608	61079-918-151
RP95	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
XA01	2801-001417	CRYSTAL-SMD;12MHZ,50PPM,26-AAE,12PF,70OHM,	B1280-0256
XP01	2801-001428	CRYSTAL-SMD;28.375MHZ,30PPM,28-ABL,7PF,600	B1280-0246
XP02	2801-001425	CRYSTAL-SMD;17.734476MHZ,30PPM,25-AAE,16PF	B1280-0255
169	**AC90-10017A**	**ASSY-CCD BOARD**	**69063-215-166**
CC01	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC02	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC04	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC05	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC06	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC07	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC08	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC10	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC11	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC13	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC14	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC15	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC16	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CC18	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
CC19	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC20	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CC21	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CC22	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	A1106-0016
CC24	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC25	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	A1100-0268
CC26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC28	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,-,-,TP	61619-910-339
CC29	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CC30	2404-000130	C-TA,CHIP;10UF,20%,20V,-,6032,-,TP	A1106-0029
CC31	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CC33	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC34	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
CC35	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC36	2203-001566	C-CERAMIC,CHIP MELF;10PF,0.25PF,50V,SL,2012,2MM,TP	A1100-0442
CC37	2203-001566	C-CERAMIC,CHIP MELF;10PF,0.25PF,50V,SL,2012,2MM,TP	A1100-0442
CC38	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
CC39	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CC40	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC41	2402-000112	C-AL,SMD;10UF,20%,16V,GP,-,-,TP	61619-908-011
CC43	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104

Loc. No	New Part No	Description and Specification	Old Part No
CC44	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC45	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CC91	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CC92	2404-000201	C-TA,CHIP;22UF,20%,6.3V,-,6032,-,TP	A1106-0057
CN01	3711-002137	CONNECTOR-HEADER;BOX,44P,2R,0.8,ANGLE,SN	B6010-1797
CNC02	3708-000403	CONNECTOR-FPC/FC/PIC;22P,0.5MM,STRAIGHT,SN,6214-02	B6010-0906
DC01	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DC02	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
ICC02	AC14-12009R	IC;CXD1250N,SOP,CCD DRIVER	B4008-0898
ICC03	AC14-12008D	IC-LOGIC;MPC17A85ZVM/SC111315,SOP,TAPE	B4004-0415
ICC04	AC14-12008D	IC-LOGIC;MPC17A85ZVM/SC111315,SOP,TAPE	B4004-0415
LC01	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LC02	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LC03	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LC04	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LC05	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
LC06	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	B1160-0009
QC01	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
QC02	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
QC03	0505-000180	FET-SILICON;2SK1070,N,-,50MA,-,150MW,SOT-2	B4054-0073
QC04	0504-000113	TR-DIGITAL;DTC144EU,NPN,200MW,47K-47K,SC-	A4050-0124
RC01	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RC02	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	61079-918-391
RC05	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RC06	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	61079-918-391
RC07	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RC08	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RC09	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RC10	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RC11	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	A1020-0846
RC12	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RC13	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	A1020-0846
RC14	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RC15	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RC16	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RC17	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	A1020-0846
RC18	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	A1020-0846
RC19	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RC20	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
RC21	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RC22	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	61079-918-104
RC23	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	61079-918-392
RC24	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RC27	2007-000072	R-CHIP;47OHM,5%,1/16W,DA,TP,1608	61079-918-470
RMC01	AD59-60060C	MODULE-REMOCON;-,GP1U261X,38KHZ,940NM,-,-,ST	-
180	**AD90-10800D**	**ASSY-EVF;VP-K80**	-
183	AD90-10800X	ASSY-EVF BOARD;VP-K80,PAL	-
CE01	2203-000308	C-CERAMIC,CHIP;120PF,5%,50V,CH,1608,-,TP	61454-153-121
CE02	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630
CE03	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CE04	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	61454-154-472
CE05	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	A1106-0051
CE06	2306-000116	C-FILM,MPPF;100NF,5%,16V,C3225,2.5MM,TP	B1102-0156
CE07	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE09	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CE10	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	61454-153-151
CE11	2404-000159	C-TA,CHIP;1UF,20%,35V,-,3528,-,TP	A1106-0111
CE12	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	A1100-0630

Loc. No	New Part No	Description and Specification	Old Part No
CE13	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	A1106-0127
CE14	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	A1106-0127
CE15	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	A1106-0127
CE16	2309-000143	C-FILM,CHIP;3.9NF,5%,100V,-,-,TP	B1102-0387
CE17	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
CE18	B1104-0815	C-ELEC,CHIP;CE OB -45/85 50V T 3R3-M LL K ECEV1HA3	-
CE19	2201-000911	C-CERAMIC,DISC;1.2NF,0.1,1KV,Y5P,10X5,5MM,TP	A1100-0921
CE90	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	61454-153-390
CE91	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE92	2203-000384	C-CERAMIC,CHIP;15PF,5%,50V,CH,1608,-,TP	61454-153-150
CNE01	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	B6010-0778
CNE02	3711-002173	CONNECTOR-HEADER;BOX,4P,1R,1.5,STRAIGHT,SN	B6010-1732
CNE03	AC03-12001B	SOCKET-CRT;SOCKET FINDER,PI10 40MM,-,-,-,	A3047-0014
DE02	0407-000151	DIODE-ARRAY;MA153,40V,100MA,C2-3,SOT-23,TP	62169-901-082
DE03	0401-000173	DIODE-SWITCHING;MA151K,40V,100MA,-,3NS,SOT-23	62169-901-043
DE04	0401-000166	DIODE-SWITCHING;MA158-TX,200V,100MA,-,-,CHIP	B4100-0033
FTE01	AC26-32001B	TRANS-FLYBACK;ECX-C2806D,0.6INCH,4.8V	B1201-0065
ICE01	AC14-12006W	IC-LINEAR;KA7007,SOP,-	A4012-0263
LE01	2703-000409	INDUCTOR-SMD;47UH,10%,3.2X2.5X2.2MM	B1160-0012
LE03	AC27-32001B	COIL-LINEARITY;230UH-15%,PI0.12,T,-,-	A1150-0015
LE90	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	B1160-0032
LED01	0601-000208	LED;CHIP,RED,1.5X2MM,660NM	B4150-0303
QE01	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,-55V,-50V,-150MA,2	A4050-0104
QE02	0501-000238	TR-SMALL SIGNAL;2SD968A,NPN,120V,120V,500MA,1W	62129-301-172
QE03	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,-55V,-50V,-150MA,2	A4050-0104
QE90	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
QE91	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,-50V,-50V,-150MA,2	A4050-0122
RE01	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	A1020-0142
RE02	2007-000113	R-CHIP;33OHM,5%,1/16W,DA,TP,1608	61079-918-330
RE03	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RE04	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	61079-918-474
RE05	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	61079-918-823
RE06	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE07	2007-000695	R-CHIP;3.3OHM,5%,1/16W,DA,TP,1608	61079-918-339
RE08	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	61079-918-101
RE09	B1335-0002	THERMISTOR-CHIP;NTC CS 3216 3BH 471KC 470OHM/20DEG	-
RE10	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	61079-918-182
RE11	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
RE12	2007-000964	R-CHIP;5.1KOHM,5%,1/10W,DA,TP,2012	61079-917-512
RE13	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
RE14	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	61079-917-823
RE15	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	61079-917-822
RE16	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	61079-917-393
RE17	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	61079-918-561
RE18	2007-000462	R-CHIP;18OHM,5%,1/10W,DA,TP,2012	61079-917-180
RE19	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	61079-917-335
RE20	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	61079-917-335
RE21	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
RE22	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
RE23	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
RE24	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE25	2007-001056	R-CHIP;6.2KOHM,5%,1/16W,DA,TP,1608	61079-918-622
RE26	2007-000637	R-CHIP;270KOHM,5%,1/16W,DA,TP,1608	61079-918-274
RE90	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	61079-918-272
RE91	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
RE92	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	61079-918-122
RE94	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RE95	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	61079-918-471

Loc. No	New Part No	Description and Specification	Old Part No
VRE01	2104-000151	VR-SMD;50KOHM,25%,0.15W,TOP	B1056-0051
VRE02	2104-000132	VR-SMD;220OHM,25%,0.15W,TOP	B1056-0054
VRE04	2104-000178	VR-SMD;1MOHM,30%,1/20W,TOP	B1056-0093
180	**AD90-10800E**	**ASSY-CVF;VP-K85,**	-
177	AC90-10011T	ASSY B/L BOARD;VP-K85	69063-215-032
CN901	3711-002172	CONNECTOR-HEADER;BOX,3P,1R,1.5,STRAIGHT,SN	B6010-1810
FL901	B4158-0033	LAMP;3AE4T4KL0502Y 5V 0.3W WHT	-
L901	AC40-22002F	CONVERTER-COIL;-,-	67189-0050-00
Q901	B4054-0053	FET;2SK1474-Z 20W 8A 100V MOS/N-CHANNEL T TL	-
183	AD90-10800Y	ASSY-CVF PROCESS;VP-K85,PAL	-
CE01	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE02	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE03	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE04	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE05	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE06	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE07	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE08	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE09	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE10	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE101	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE11	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CE12	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE13	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE14	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE15	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE16	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE17	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE18	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CE19	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,-,-,TP	61619-910-339
CE20	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	61454-153-390
CE21	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE22	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CE23	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE24	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	61454-153-470
CE25	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CE26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE27	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CE28	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE29	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE30	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE31	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CE32	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE33	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE34	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE35	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM,	-
CE36	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE37	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE38	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
CE39	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	A1106-0127
CE40	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE44	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE52	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CE53	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	61454-154-222
CE54	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	61454-153-221
CE55	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM,	-
CE56	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE88	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150

Loc. No	New Part No	Description and Specification	Old Part No
CE89	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CNE01	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	B6010-0778
CNE02	3711-002196	CONNECTOR-HEADER;,20P,2R,0.8,-,	B6012-0259
CNE03	3711-002613	CONNECTOR-HEADER;3WALL,3P,1R,1.25MM,SMD-S,SN	B6010-0901
DE01	0407-000151	DIODE-ARRAY;MA153,40V,100MA,C2-3,SOT-23,TP	62169-901-082
DE02	0405-000123	DIODE-VARACTOR;1T369,34V,10NA,DSM,TP	B4108-0016
DE03	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-23	A4114-0009
DE04	0403-000645	DIODE-ZENER;RD-12M,12V,11.42-11.9V,200MW,S	62169-106-011
DE05	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DE06	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
ICE01	1003-000258	IC-LCD DRIVER;CXA1854R,QFP,64P,-,SINGLE,53MA	B4012-0598
ICE02	B4004-0340	IC-LOGIC;TC7W04FU-TE12L SOP TAPE 8P	-
ICE03	AC14-12014T	IC-LINEAR;NJM2360M,SOP,TE3	B4012-0253
LE01	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	B1160-0030
LE02	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225	-
LE03	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225	-
LE04	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
LE05	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LE06	2703-000404	INDUCTOR-SMD;220UH,10%,3.2X2.5X2.2MM	B1160-0008
LE07	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LED01	0601-000208	LED;CHIP,RED,1.5X2MM,660NM	B4150-0303
QE01	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,-55V,-50V,-150MA,2	A4050-0104
QE02	0501-000604	TR-SMALL SIGNAL;2SC4168-3,NPN,40V,20V,150MA,30	62129-301-067
QE04	0501-000201	TR-SMALL SIGNAL;2SC2812,NPN,55V,50V,150MA,200M	62129-301-117
QE08	0504-001005	TR-DIGITAL;DTC114TU,NPN,200MW,10KOHM,SOT-	-
RE05	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608	61079-918-433
RE06	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE07	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
RE08	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE09	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE10	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE100	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE11	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE110	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RE111	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE112	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE113	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE12	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE13	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE14	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE15	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE16	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE17	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE18	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE19	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE20	2007-000805	R-CHIP;36KOHM,5%,1/16W,DA,TP,1608	A1020-0446
RE21	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE22	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE23	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE24	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE26	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RE27	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE29	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE30	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE31	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE32	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
RE33	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RE34	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152

Loc. No	New Part No	Description and Specification	Old Part No
RE35	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE36	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	A1020-0618
RE37	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE38	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE39	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE40	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	A1020-0190
RE41	2007-000695	R-CHIP;3.3OHM,5%,1/16W,DA,TP,1608	61079-918-339
RE42	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	61079-918-181
RE43	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE44	2007-000126	R-CHIP;4.3KOHM,5%,1/16W,DA,TP,1608	61079-918-432
RE45	2007-000639	R-CHIP;270OHM,1%,1/10W,DA,TP,2012	A1020-0357
RE46	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE47	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE48	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE50	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE51	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE52	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE53	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RE54	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE55	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE56	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE60	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
RE61	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE62	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
VRE01	2104-000181	VR-SMD;20KOHM,30%,1/20W,TOP	B1056-0098
VRE02	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	B1056-0011
VRE03	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
VRE04	2104-000114	VR-SMD;1KOHM,25%,0.15W,TOP	61249-924-001
VRE05	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	B1056-0011
VRE06	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
VRE07	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
XE01	2801-001437	CRYSTAL-SMD;4.433619MHZ,20PPM,28-AAE,16PF,	B1280-0257
176	AD90-10802E	ASSY-CVF DRIVE BOARD;VP-K85	-
CE105	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CNE04	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5MM,SMD-S,SN	B6010-1089
CNE05	3710-000391	CONNECTOR-SOCKET;20P,2R,0.8MM,STRAIGHT,SN	B6010-1811

Loc. No	New Part No	Description and Specification	Old Part No
		ADAPTER	
	AC44-30001F	VP-K80, VP-K85 SEUK(SESC) ONLY	A7008-0108
	AC44-30001G	VP-K80, VP-K85 SEAU ONLY	A7008-0109
	AC44-30001E	VP-K80, VP-K85 OTHER BUYER(SEG, SECO, SEF, SEI, SEP)	A7008-0097
		ASSY-MAIN BOARD;AA-E2P/SAMSUNG,-	-
C10	2306-000298	C-FILM,MPPF;220NF,20%,250V,6.5X5.5X3MM,5MM	B1102-0333
C11	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5MM,7.	A1100-0450
C12	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5MM,7.	A1100-0450
C13	2401-001567	C-AL;47UF,20%,400V,WT,18X20,10MM,	A1104-0719
C14	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5MM,7.	A1100-0450
C15	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5MM,7.	A1100-0450
C16	2301-000140	C-FILM,PEF;10NF,10%,630V,16.5X9.5X5.7X,12	A1102-0219
C17	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	A1100-0010
C18	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	61637-208-229
C19	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,2012,-,TP	A1100-0071
C20	2203-001576	C-CERAMIC,CHIP;150NF,+80-20%,50V,Z5U,2012,2MM	A1100-1000
C21	2401-001184	C-AL;33UF,20%,35V,GP,13X20,5MM,	61637-206-330
C22	2401-002168	C-AL;100UF,0.2,50V,GP,10X12.5,5MM,TP	61637-508-101
C23	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C50	2401-001591	C-AL;47UF,20%,6.3V,GP,5X7,2.5MM,	61647-702-470
C51	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	A1100-0010
C52	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	A1100-0010
C53	2401-001878	C-AL;1000UF,20%,16V,GP,10X20MM,5MM,	61637-504-102
C54	2401-001374	C-AL;470UF,20%,16V,WT,10X12.5,2.5MM	A1104-0480
C55	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C56	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,2012,-,TP	A1100-0011
C57	2401-001917	C-AL;1UF,20%,50V,-,5X7MM,2MM,BK	61617-408-010
C59	2401-001952	C-AL;4.7UF,20%,50V,-,4X7MM,1.5MM,BK	61617-408-479
C60	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG	-
C61	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C62	B1100-0674	C-CERAMIC,CHIP;CK 73 Y5V 16V T 685-Z C3225	-
C64	2201-000913	C-CERAMIC,DISC;100NF,+80-20%,50V,Y5V,8X3.5,5MM,TP	61417-109-210
C65	61407-117-101	C-CERAMIC.AXIAL;UP050F 104Z	-
C66	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
C67	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	A1100-0017
CL10	64709-084-770	CLIP-FUSE;RBP4-1 1/2H 3A 0.4T	-
CL11	64709-084-770	CLIP-FUSE;RBP4-1 1/2H 3A 0.4T	-
⚠ D10	0402-000386	DIODE-BRIDGE;S1WB60,600V,1A,DIP-4	B4104-0065
D11	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	B4112-0006
D12	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
D13	0403-000646	DIODE-ZENER;RD20SB,20V,18.8-21.14V,200MW,M	B4106-0240
D14	0403-000648	DIODE-ZENER;RD4.7SB,4.7V,4.4-4.92,200MW,MI	B4106-0239
D15	0403-000647	DIODE-ZENER;RD24SB,24V,22.86-25.66V,200MW,	B4106-0241
D16	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	B4112-0006
D17	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	B4112-0006
D51	0404-000135	DIODE-SCHOTTKY;ESAC85M-009,90V,10A,SIP,BK	B4112-0002
D52	0402-000165	DIODE-RECTIFIER;1N5819,40V,1A,DO-41	62169-501-064
D53	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-23	A4114-0009
D54	0407-000116	DIODE-ARRAY;DAP202K,80V,100MA,CK2-3,SOT	12169-102-330
D55	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
D57	0403-000649	DIODE-ZENER;RD5.1S,5.1V,4.96-5.22V,200MW,M	B4106-0238
⚠ F10	B3065-0202	FUSE;DEMKO FST 250V 1.25A 5X20MM S505 C HBC	-
⚠ IC11	AC14-12011C	IC;FA5304S,SOP,8P TAPE	B4008-1207
⚠ IC12	AC13-22001B	IC-HYBRID;PC113(LY),-,DIP,-	B4010-0011
⚠ IC12	B4161-0037	PHOTO-COUPLER;TLP621-GR ST	-
IC51	1201-000203	IC-OP AMP;3414,DIP,8P,300MIL,DUAL,-,PLAS	62119-402-030
IC52	AC14-12006R	IC;TK11640N,TO-92S,3P TAPE	A4008-1209
⚠ IC53	AC09-12012P	IC-MICOM;TMP47C241NFF34,QFP,CS95	67199-0260-00

Loc. No	New Part No	Description and Specification	Old Part No
⚠ J51	B3040-0068	JACK-DC;PI3 HEC0740-01-010 3P	-
⚠ L10	A1151-0001	COIL-LINE FILTER;BSF-2123 20MH 10OHM	-
L11	A1247-0053	FILTER-EMI BEAD;BFS3565A0L SB 100OHM/100MHZ-90OHM	-
L51	AC27-12001P	COIL-PEAKING;10UH-J,RA,EL0606RA-100J,Q80,F2	A1132-0008
L52	AC27-12001F	COIL-CHOKE;100UH,J,-,-,-,100UH-J RA 1KHZ	A1130-0020
LED51	B4150-0287	LED-DISPLAY;LN086WP38 ORG/GRN PI1.8	-
PWR01	AC39-12022M	POWER-CORD;CP2,KJ-0201,BLK,YH396-32V,1.83	A6006-0283
⚠ Q10	0505-000238	FET-SILICIN;2SK903M,N,800V,3A,4OHM,40W,TO-	B4054-0052
Q51	0502-000399	TR-POWER;2SB1127S,PNP,-25V,-20V,-5A,1W,	B4052-0027
Q52	62129-101-110	TRANSISTOR.CHIP;KSR 1102 (REEL)	-
Q53	0502-000431	TR-POWER;2SB1203S,PNP,-60V,-50V,-5A,1W,	62149-201-016
Q54	62129-101-110	TRANSISTOR.CHIP;KSR 1102 (REEL)	-
Q55	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	11139-801-060
Q56	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	11139-801-060
Q57	0504-000158	TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	11139-801-060
R01	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
R02	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
R03	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
R04	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	61079-917-000
R05	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R06	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	61079-217-000
R10	2001-000474	R-CARBON;2.7MOHM,5%,1/4W,AA,TP,2.4X6.4M	61048-277-275
R12	A1014-0079	R-CEMENT;RWC 2W I 3R3-J ST ABCO	-
R13	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	61048-177-823
R14	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	61048-177-823
R15	2007-001212	R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	A1020-0837
R16	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	61048-177-823
R17	2003-000307	R-METAL OXIDE;47KOHM,5%,2W,AD,TP,6X16MM	61049-527-473
R19	2003-000111	R-METAL OXIDE;0.47OHM,5%,1W,AD,TP,4.3X12MM	A1004-0220
R20	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	61079-917-221
R21	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	61079-917-338
R22	2007-000248	R-CHIP;1.5MOHM,5%,1/10W,DA,TP,2012	61079-917-155
R24	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	61079-917-338
R25	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	61079-917-822
R51	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	61079-217-100
R52	2007-000515	R-CHIP;2.7KOHM,1%,1/10W,DA,TP,2012	A1020-0381
R53	2007-000218	R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012	61079-916-122
R54	2007-000639	R-CHIP;270OHM,1%,1/10W,DA,TP,2012	A1020-0357
R55	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	61079-917-104
R56	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	61079-917-221
R57	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	61079-917-272
R58	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	61079-917-104
R59	2007-000361	R-CHIP;12OHM,5%,1/10W,DA,TP,2012	61079-917-120
R60	2007-000928	R-CHIP;470OHM,1%,1/10W,DA,TP,2012	61079-916-471
R61	2007-000218	R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012	61079-916-122
R62	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	61079-916-472
R63	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	61079-916-472
R64	2007-000658	R-CHIP;27OHM,5%,1/10W,DA,TP,2012	61079-917-270
R65	2003-000102	R-METAL OXIDE;0.1OHM,5%,1W,AD,TP,4.3X12MM	A1004-0221
R66	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	61079-917-123
R67	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	61079-917-122
R68	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	61079-917-222
R69	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	61079-917-471
R70	B1004-0442	R-METAL OXIDE;RS 3W N 43-J ERG3SJ430H	-
R71	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	61079-917-103
R72	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	61079-917-103
R73	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	61079-917-102
R74	B1004-0442	R-METAL OXIDE;RS 3W N 43-J ERG3SJ430H	-

Loc. No	New Part No	Description and Specification	Old Part No
R75	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	61079-917-153
R76	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	61079-917-153
R77	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	61079-917-103
R78	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	61079-917-153
R79	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	61079-917-103
R80	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	61079-917-391
R81	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	61079-917-153
R82	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	61079-917-272
R83	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	61079-917-391
R84	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	61079-917-273
R85	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	61079-917-153
R86	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	61079-917-273
R87	2003-000146	R-METAL OXIDE;100OHM,5%,1W,AD,TP,4.3X12MM	61049-327-101
R90	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	61079-217-470
R91	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	61079-217-470
R92	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	61079-217-470
R93	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	61079-217-470
R94	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	61079-917-273
R95	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	61079-917-122
R96	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	61079-917-182
R97	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	61046-177-102
SW51	3404-000239	SWITCH-TACT;15V,20MA,130+-40GF,6X6MM,-	B3018-0071
⚠ T10	AC26-80001F	TRANS-POWER;EI25X19,AC90/260V,50HZ,-	A1199-0020
W10	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96MM,STRAIGHT,SN	A6010-0459
XT51	64539-102-012	CERAMIC RESONATOR;FCR 4.0MC5	-

8. Block Diagrams

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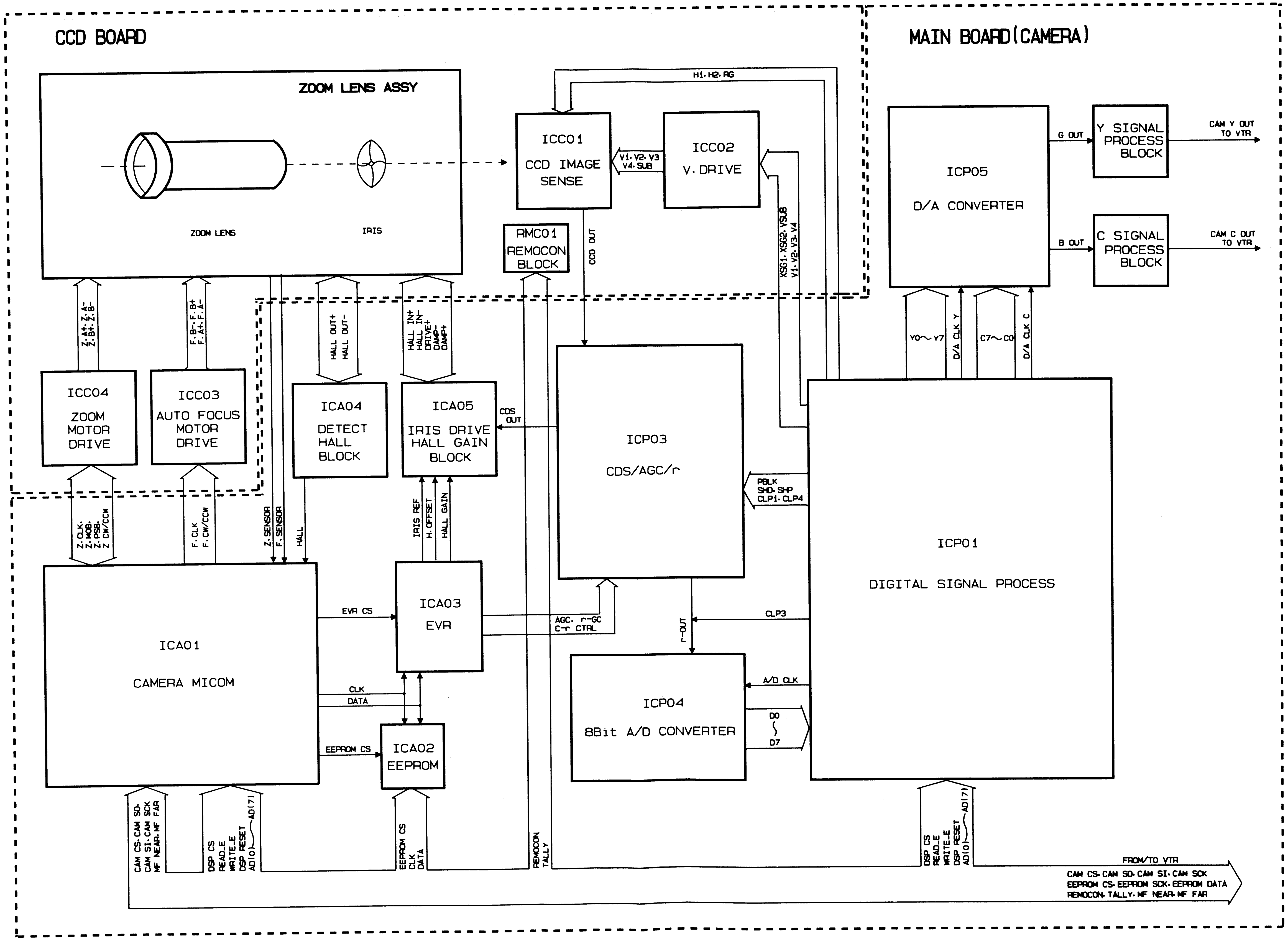
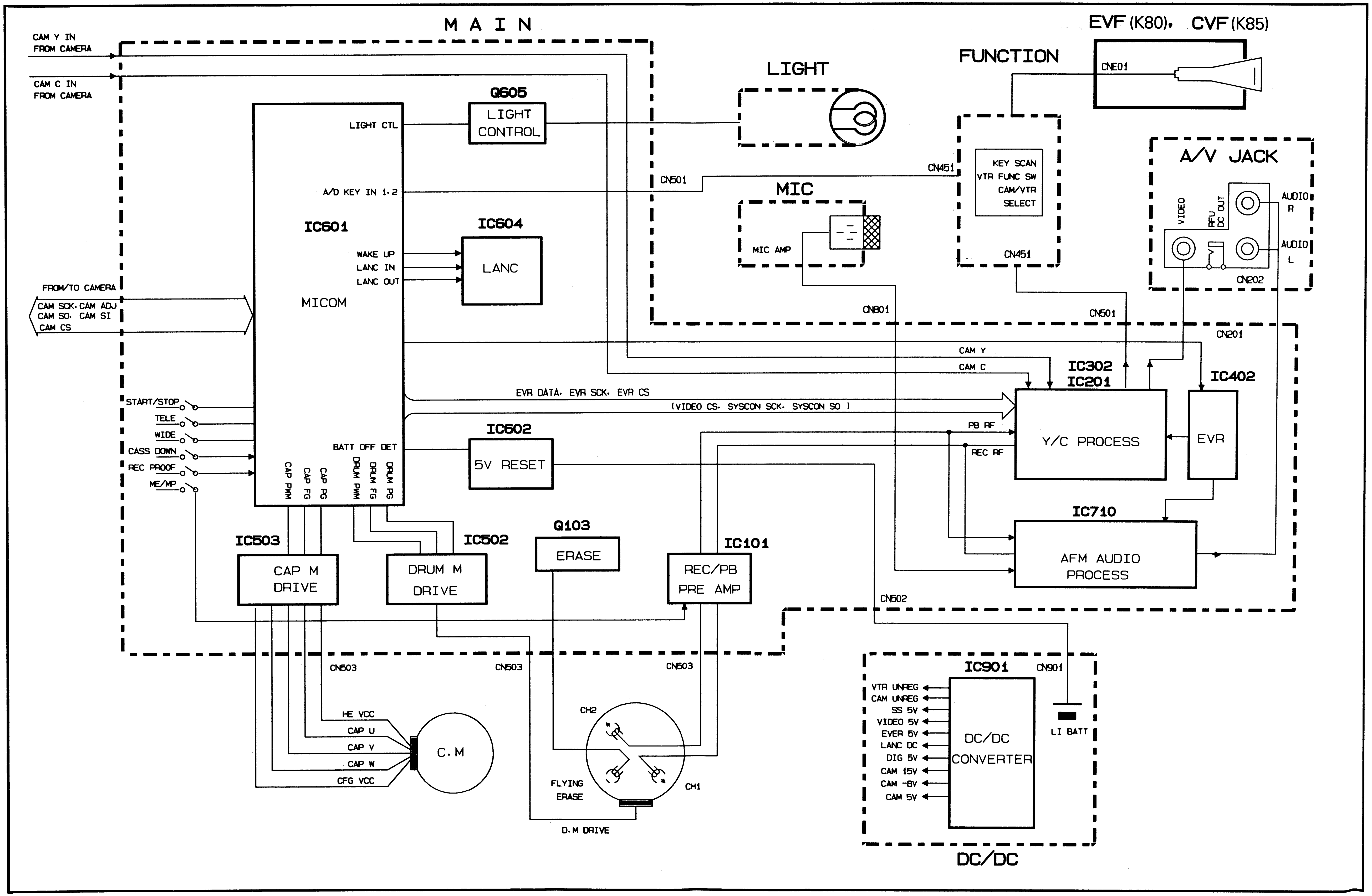
8-11 CCD/Camera Main --------------------- 8-12

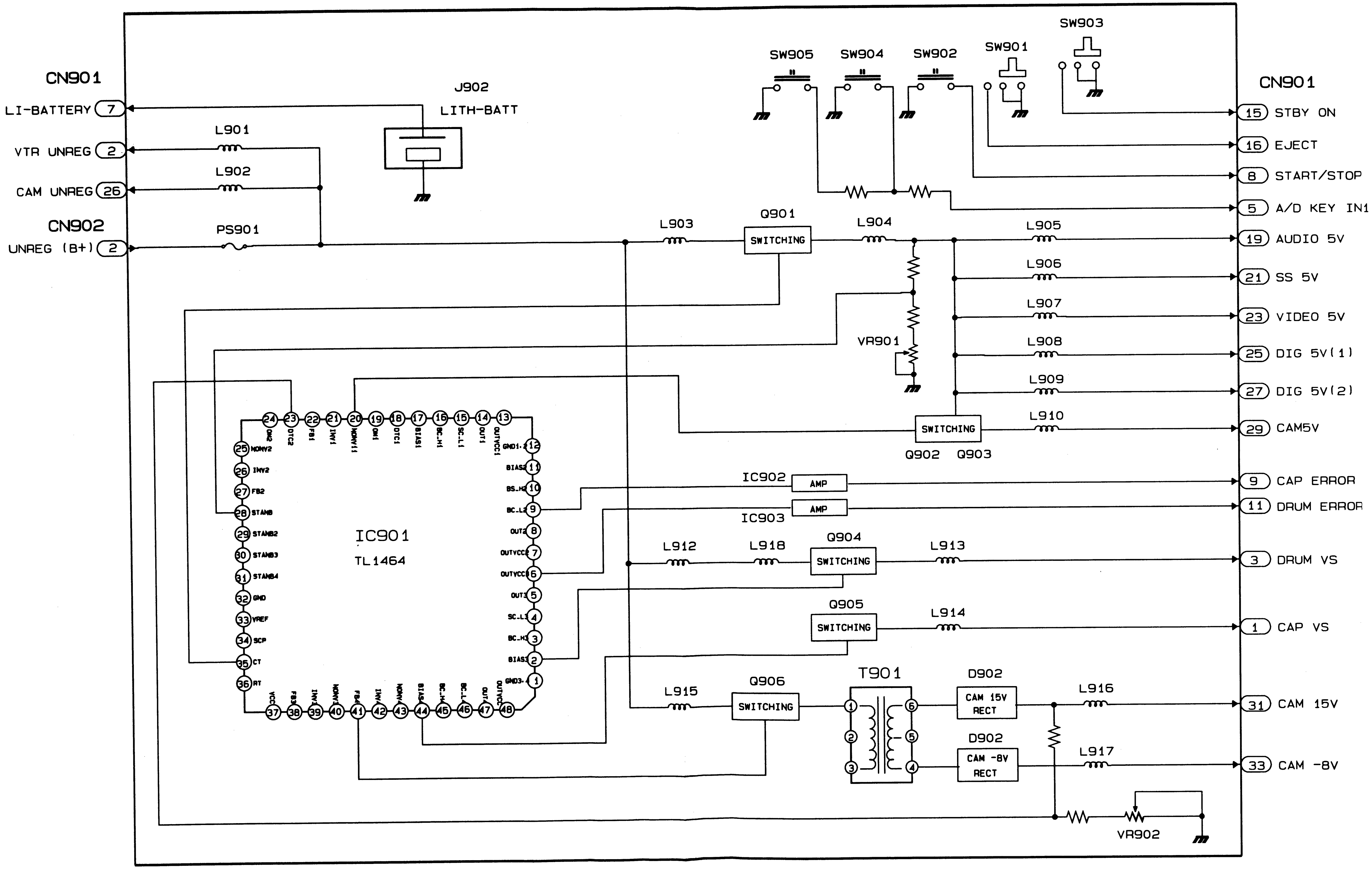
8-1 Overall Block Diagram (Camera)


CCD BOARD
MAIN BOARD(CAMERA)
ZOOM LENS ASSY
ZOOM LENS
IRIS
ICC01
CCD IMAGE SENSE
ICC02
V. DRIVE
V1. V2. V3
V4. SUB
H1. H2. RG
XSG1. XSG2. VSUB
V1. V2. V3. V4
RMC01
REMOCON
BLOCK
CCD OUT
Z.A+. Z.A-
Z.B+. Z.B-
F.B-. F.B+
F.A+. F.A-
HALL OUT+
HALL OUT-
HALL IN+
HALL IN-
DRIVE+
DAMP-
DAMP+
ICC04
ZOOM MOTOR DRIVE
ICC03
AUTO FOCUS MOTOR DRIVE
ICA04
DETECT HALL BLOCK
ICA05
IRIS DRIVE HALL GAIN BLOCK
CDS OUT
Z.CLK.
Z.MOB.
Z.PSB.
Z CW/CCW
F.CLK
F.CW/CCW
Z.SENSOR
F.SENSOR
HALL
IRIS REF
H.OFFSET
HALL GAIN
ICA01
CAMERA MICOM
EVR CS
ICA03
EVR
AGC. r-GC
C-r CTRL
CLK
DATA
EEPROM CS
ICA02
EEPROM
ICP03
CDS/AGC/r
PBLK
SHD. SHP
CLP1. CLP4
CLP3
r-OUT
ICP04
8Bit A/D CONVERTER
A/D CLK
D0
D7
ICP01
DIGITAL SIGNAL PROCESS
ICP05
D/A CONVERTER
Y0~Y7
D/A CLK Y
C7~C0
D/A CLK C
G OUT
B OUT
Y SIGNAL PROCESS BLOCK
C SIGNAL PROCESS BLOCK
CAM Y OUT TO VTR
CAM C OUT TO VTR
CAM CS. CAM SO.
CAM SI. CAM SCK
MF NEAR. MF FAR
DSP CS
READ_E
WRITE_E
DSP RESET
AD(0)~AD(7)
EEPROM CS
CLK
DATA
REMOCON
TALLY
DSP CS
READ_E
WRITE_E
DSP RESET
AD(0)~AD(7)
FROM/TO VTR
CAM CS. CAM SO. CAM SI. CAM SCK
EEPROM CS. EEPROM SCK. EEPROM DATA
REMOCON. TALLY. MF NEAR. MF FAR

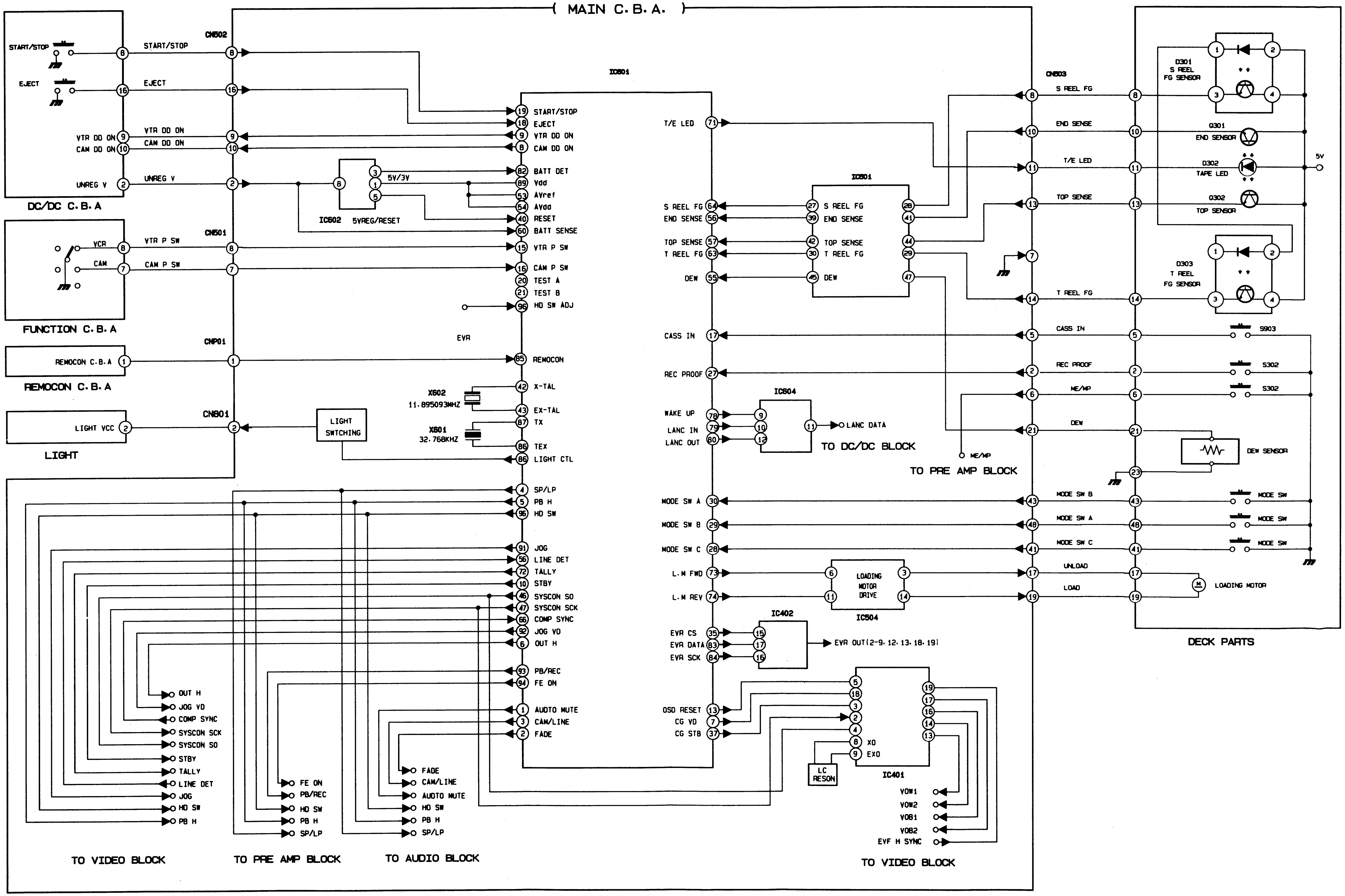
8-2 Overall Block Diagram (VCR)


MAIN
CAM Y IN FROM CAMERA
CAM C IN FROM CAMERA
FROM/TO CAMERA
CAM SCK· CAM ADJ
CAM SO· CAM SI
CAM CS
START/STOP
TELE
WIDE
CASS DOWN
REC PROOF
ME/MP
IC601
MICOM
LIGHT CTL
A/D KEY IN 1·2
WAKE UP
LANC IN
LANC OUT
BATT OFF DET
CAP PWM
CAP FG
CAP PG
DRUM PWM
DRUM FG
DRUM PG
Q605
LIGHT CONTROL
IC604
LANC
IC602
5V RESET
IC503
CAP M DRIVE
IC502
DRUM M DRIVE
Q103
ERASE
IC101
REC/PB PRE AMP
CN503
CN503
CN503
HE VCC
CAP U
CAP V
CAP W
CFG VCC
C.M
CH2
CH1
FLYING ERASE
D.M DRIVE
LIGHT
MIC
MIC AMP
CN501
CN801
FUNCTION
CN451
KEY SCAN
VTR FUNC SW
CAM/VTR SELECT
CN451
EVF (K80), CVF (K85)
CNE01
A/V JACK
VIDEO
RFU DC OUT
AUDIO R
AUDIO L
CN202
CN501
CN201
CAM Y
CAM C
EVR DATA· EVR SCK· EVR CS
(VIDEO CS· SYSCON SCK· SYSCON SO)
PB RF
REC RF
IC302
IC201
Y/C PROCESS
IC402
EVR
IC710
AFM AUDIO PROCESS
CN502
IC901
CN901
VTR UNREG
CAM UNREG
SS 5V
VIDEO 5V
EVER 5V
LANC DC
DIG 5V
CAM 15V
CAM -8V
CAM 5V
DC/DC CONVERTER
LI BATT
DC/DC

8-3 DC/DC Converter

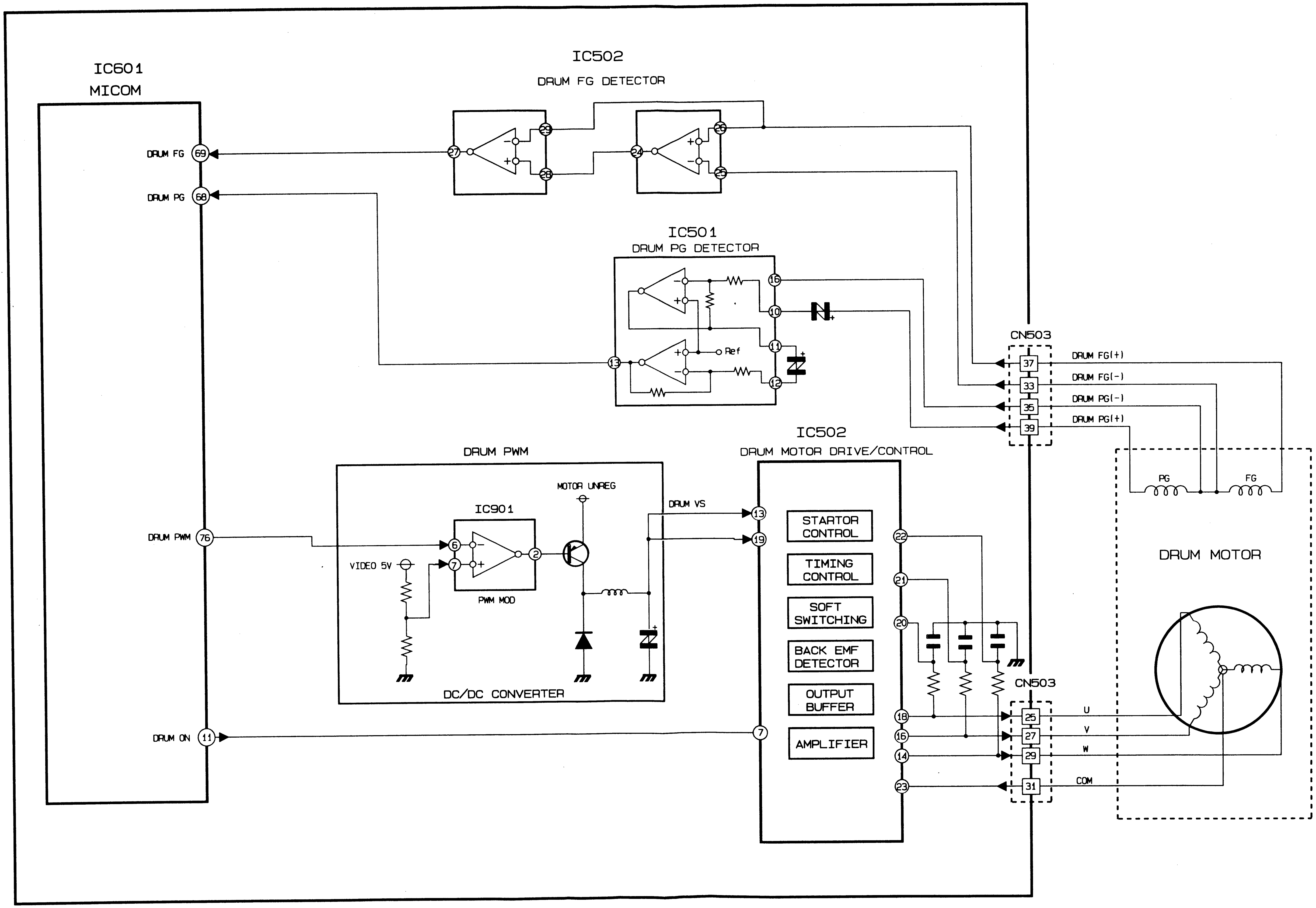

CN901
LI-BATTERY 7
VTR UNREG 2
CAM UNREG 26
CN902
UNREG (B+) 2
J902
LITH-BATT
L901
L902
PS901
SW905
SW904
SW902
SW901
SW903
CN901
15 STBY ON
16 EJECT
8 START/STOP
5 A/D KEY IN1
19 AUDIO 5V
21 SS 5V
23 VIDEO 5V
25 DIG 5V(1)
27 DIG 5V(2)
29 CAM5V
9 CAP ERROR
11 DRUM ERROR
3 DRUM VS
1 CAP VS
31 CAM 15V
33 CAM -8V
L903
Q901
SWITCHING
L904
L905
L906
L907
L908
L909
L910
VR901
SWITCHING
Q902 Q903
IC902
AMP
IC903
AMP
L912
L918
Q904
SWITCHING
L913
Q905
SWITCHING
L914
L915
Q906
SWITCHING
T901
D902
CAM 15V RECT
D902
CAM -8V RECT
L916
L917
VR902
IC901
TL1464
24 DM2
23 DTC2
22 FB1
21 INV1
20 NONV11
19 DM1
18 DTC1
17 BIAS1
16 BC_H1
15 SC_L1
14 OUT1
13 OUTVCC1
12 GND1.2
11 BIAS2
10 BS_H2
9 BC_L2
8 OUT2
7 OUTVCC2
6 OUTVCC3
5 OUT3
4 SC_L3
3 BC_H3
2 BIAS3
1 GND3.4
25 NONV2
26 INV2
27 FB2
28 STANB
29 STANB2
30 STANB3
31 STANB4
32 GND
33 VREF
34 SCP
35 CT
36 RT
37 VCC
38 FB3
39 INV3
40 NONV3
41 FB4
42 INV4
43 NONV4
44 BIAS4
45 BC_H4
46 BC_L4
47 OUT4
48 OUTVCC4

8-4 System Control

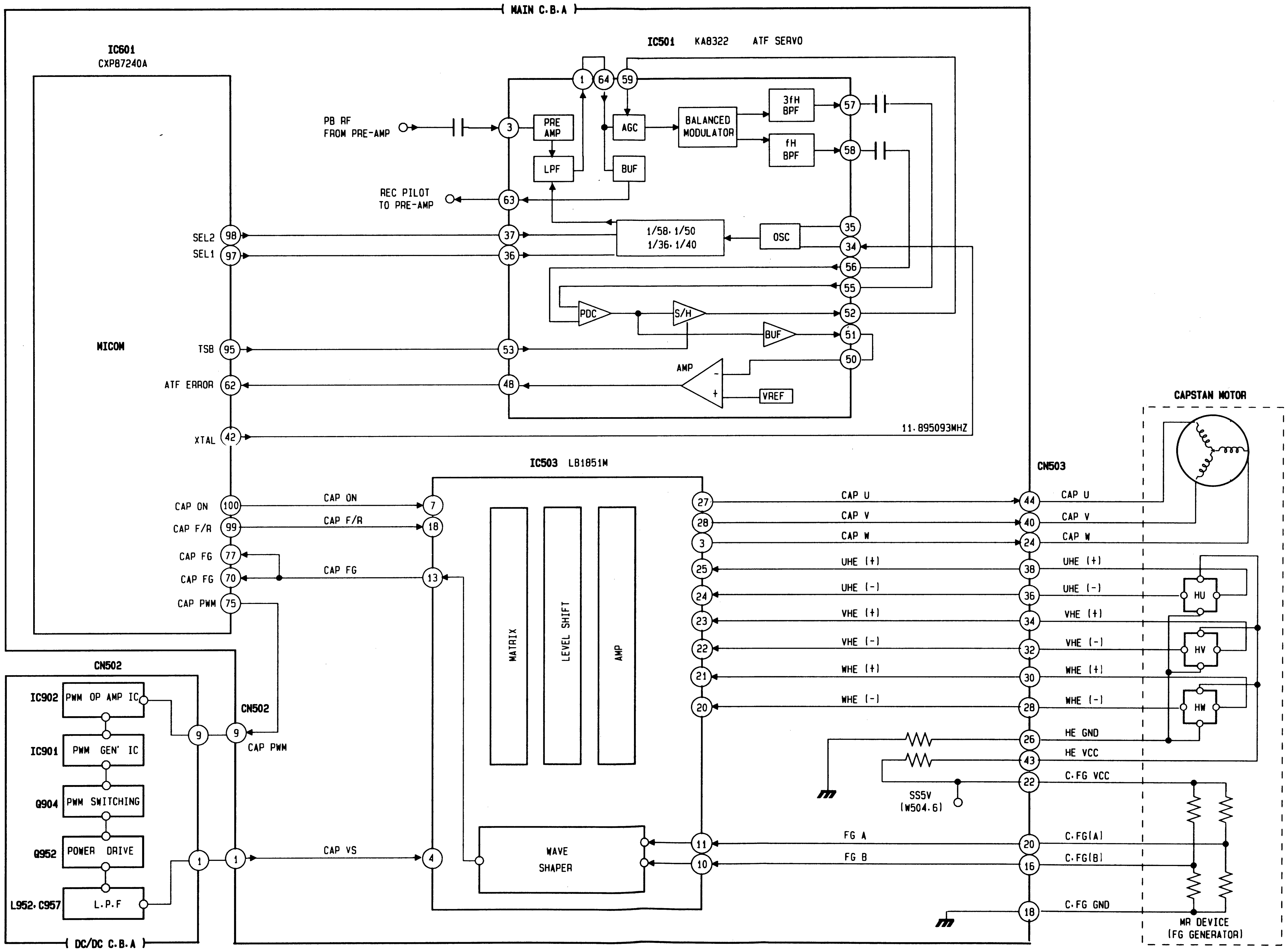


MAIN C.B.A.
START/STOP
EJECT
VTR DD ON
CAM DD ON
UNREG V
DC/DC C.B.A
CN502
VCR
CAM
VTR P SW
CAM P SW
CN501
FUNCTION C.B.A
REMOCON C.B.A
CNP01
REMOCON C.B.A
LIGHT VCC
CN801
LIGHT
LIGHT SWITCHING
5V/3V
IC602 5VREG/RESET
X602 11.895093MHZ
X601 32.768KHZ
EVR
IC801
START/STOP
EJECT
VTR DD ON
CAM DD ON
BATT DET
Vdd
AVref
AVdd
RESET
BATT SENSE
VTR P SW
CAM P SW
TEST A
TEST B
HD SW ADJ
REMOCON
X-TAL
EX-TAL
TX
TEX
LIGHT CTL
SP/LP
PB H
HD SW
JOG
LINE DET
TALLY
STBY
SYSCON SO
SYSCON SCK
COMP SYNC
JOG VD
OUT H
PB/REC
FE ON
AUDIO MUTE
CAM/LINE
FADE
T/E LED
S REEL FG
END SENSE
TOP SENSE
T REEL FG
DEW
CASS IN
REC PROOF
WAKE UP
LANC IN
LANC OUT
MODE SW A
MODE SW B
MODE SW C
L.M FWD
L.M REV
EVR CS
EVR DATA
EVR SCK
OSD RESET
CG VD
CG STB
IC501
IC604
LANC DATA
TO DC/DC BLOCK
ME/MP
TO PRE AMP BLOCK
LOADING MOTOR DRIVE
IC504
IC402
EVR OUT(2-9.12.13.18.19)
XO
EXO
LC RESON
IC401
VOW1
VOW2
VOB1
VOB2
EVF H SYNC
TO VIDEO BLOCK
OUT H
JOG VD
COMP SYNC
SYSCON SCK
SYSCON SO
STBY
TALLY
LINE DET
JOG
HD SW
PB H
TO VIDEO BLOCK
FE ON
PB/REC
HD SW
PB H
SP/LP
TO PRE AMP BLOCK
FADE
CAM/LINE
AUDIO MUTE
HD SW
PB H
SP/LP
TO AUDIO BLOCK
CN503
S REEL FG
END SENSE
T/E LED
TOP SENSE
T REEL FG
CASS IN
REC PROOF
ME/MP
DEW
MODE SW B
MODE SW A
MODE SW C
UNLOAD
LOAD
Q301 S REEL FG SENSOR
Q301 END SENSOR
D302 TAPE LED
Q302 TOP SENSOR
Q303 T REEL FG SENSOR
5V
S903
S302
S302
DEW SENSOR
MODE SW
MODE SW
MODE SW
LOADING MOTOR
DECK PARTS

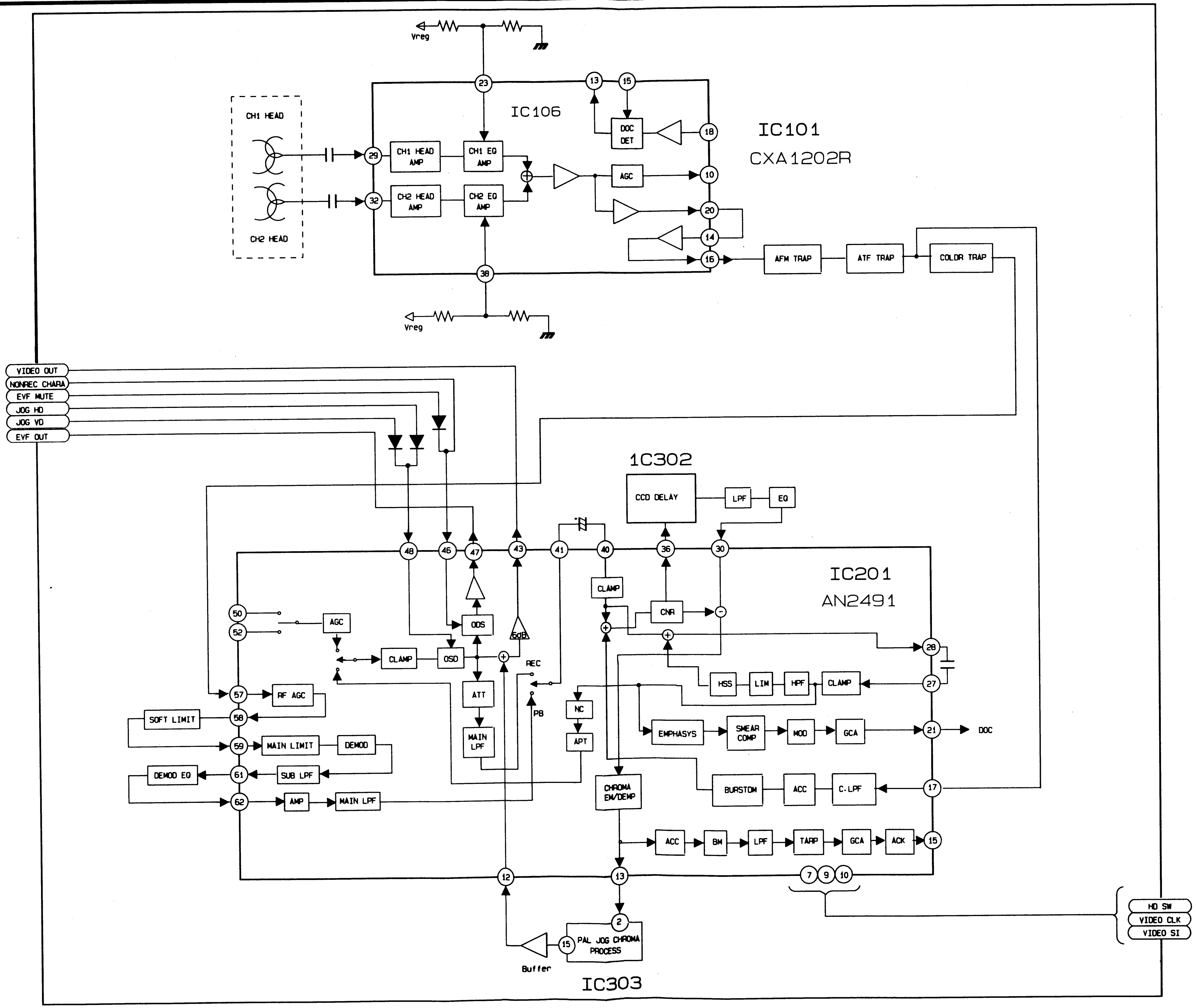
8-5 Drum Servo


IC601
MICOM
DRUM FG 69
DRUM PG 68
DRUM PWM 76
DRUM ON 11
IC502
DRUM FG DETECTOR
27
29
28
24
26
25
IC501
DRUM PG DETECTOR
16
10
11
12
13
Ref
DRUM PWM
MOTOR UNREG
IC901
6
7
2
VIDEO 5V
PWM MOD
DC/DC CONVERTER
DRUM VS
IC502
DRUM MOTOR DRIVE/CONTROL
13
19
7
22
21
20
18
16
14
23
STARTOR CONTROL
TIMING CONTROL
SOFT SWITCHING
BACK EMF DETECTOR
OUTPUT BUFFER
AMPLIFIER
CN503
37
33
35
39
DRUM FG(+)
DRUM FG(-)
DRUM PG(-)
DRUM PG(+)
CN503
25
27
29
31
U
V
W
COM
PG
FG
DRUM MOTOR

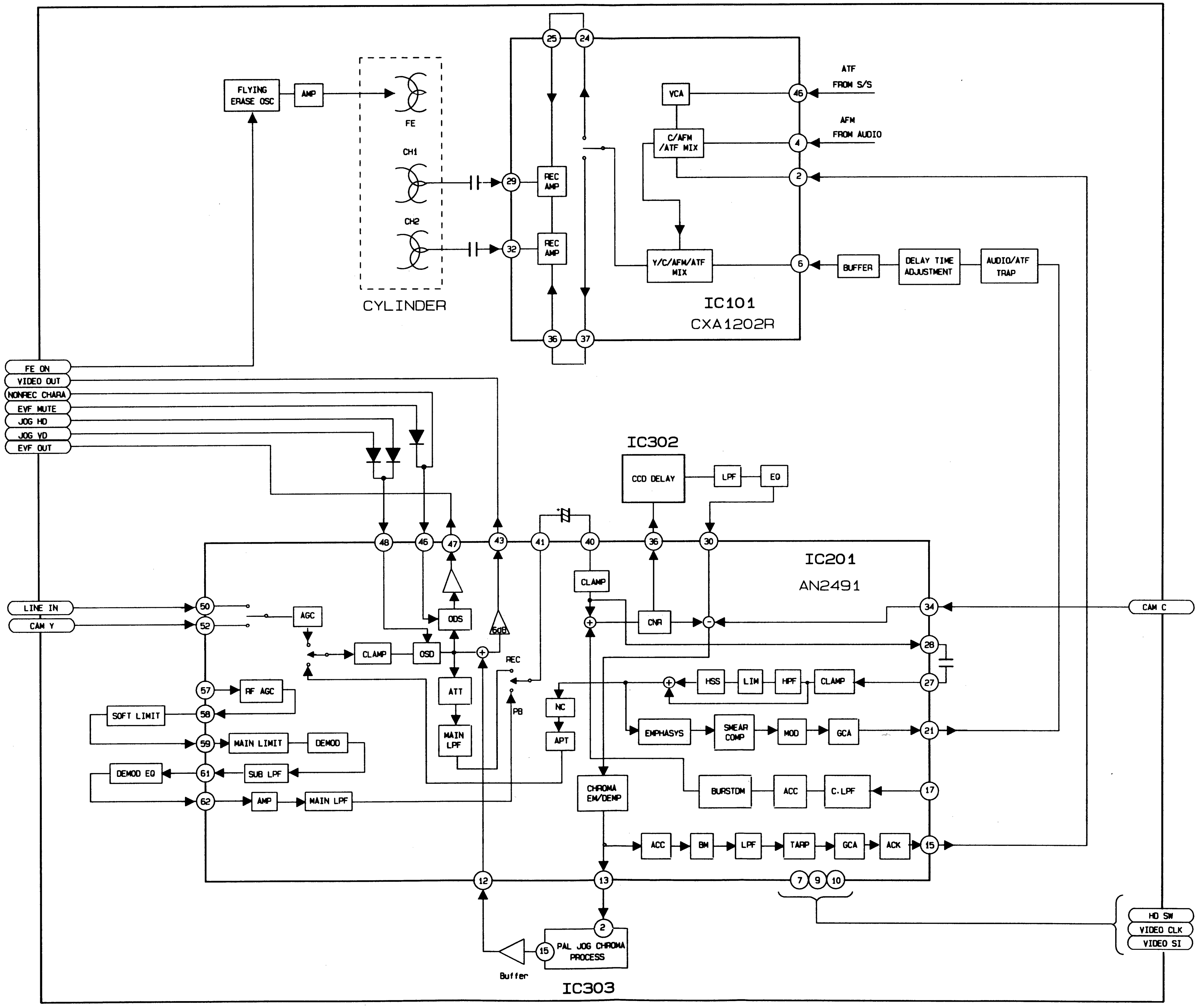
8-6 Capstan Servo


MAIN C.B.A
IC601
CXP87240A
MICOM
IC501 KA8322 ATF SERVO
PB RF
FROM PRE-AMP
PRE AMP
LPF
AGC
BUF
BALANCED MODULATOR
3fH BPF
fH BPF
REC PILOT
TO PRE-AMP
1/58·1/50
1/36·1/40
OSC
PDC
S/H
BUF
AMP
VREF
SEL2
SEL1
TSB
ATF ERROR
XTAL
11.895093MHZ
1
64
59
3
57
58
63
37
36
35
34
56
55
52
51
50
53
48
98
97
95
62
42
IC503 LB1851M
MATRIX
LEVEL SHIFT
AMP
WAVE SHAPER
CAP ON
CAP F/R
CAP FG
CAP FG
CAP PWM
100
99
77
70
75
CAP ON
CAP F/R
CAP FG
CAP VS
7
18
13
4
27
28
3
25
24
23
22
21
20
11
10
CAP U
CAP V
CAP W
UHE (+)
UHE (-)
VHE (+)
VHE (-)
WHE (+)
WHE (-)
FG A
FG B
SS5V
(W504.6)
CN503
44
40
24
38
36
34
32
30
28
26
43
22
20
16
18
CAP U
CAP V
CAP W
UHE (+)
UHE (-)
VHE (+)
VHE (-)
WHE (+)
WHE (-)
HE GND
HE VCC
C.FG VCC
C.FG(A)
C.FG(B)
C.FG GND
CAPSTAN MOTOR
HU
HV
HW
MR DEVICE
(FG GENERATOR)
CN502
IC902
PWM OP AMP IC
IC901
PWM GEN' IC
Q904
PWM SWITCHING
Q952
POWER DRIVE
L952.C957
L.P.F
DC/DC C.B.A
9
9
1
1
CN502
CAP PWM

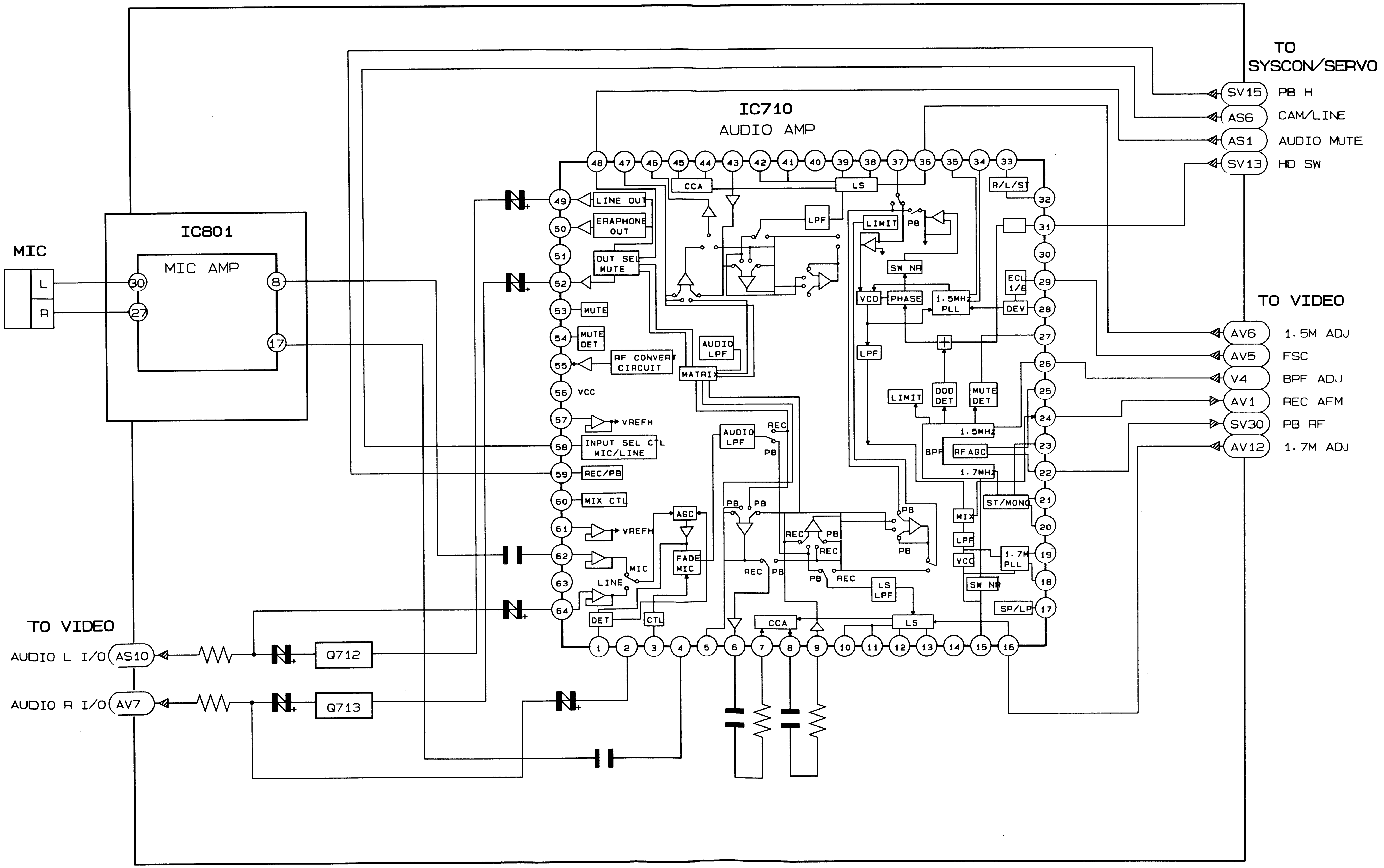
8-7 Video Playback


Vreg
23
13
15
IC106
IC101
CXA1202R
CH1 HEAD
CH2 HEAD
29
32
CH1 HEAD AMP
CH2 HEAD AMP
CH1 EQ AMP
CH2 EQ AMP
DOC DET
AGC
18
10
20
14
16
38
Vreg
AFM TRAP
ATF TRAP
COLOR TRAP
VIDEO OUT
NONREC CHARA
EVF MUTE
JOG HD
JOG VD
EVF OUT
1C302
CCD DELAY
LPF
EQ
48
46
47
43
41
40
36
30
IC201
AN2491
CLAMP
CNR
50
52
AGC
CLAMP
OSD
ODS
6dB
REC
PB
ATT
MAIN LPF
NC
APT
28
27
HSS
LIM
HPF
CLAMP
EMPHASYS
SMEAR COMP
MOD
GCA
21
DOC
57
RF AGC
SOFT LIMIT
58
59
MAIN LIMIT
DEMOD
DEMOD EQ
61
SUB LPF
62
AMP
MAIN LPF
CHROMA EM/DEMP
BURSTDM
ACC
C.LPF
17
ACC
BM
LPF
TARP
GCA
ACK
15
12
13
7
9
10
HD SW
VIDEO CLK
VIDEO SI
2
15
PAL JOG CHROMA PROCESS
Buffer
IC303

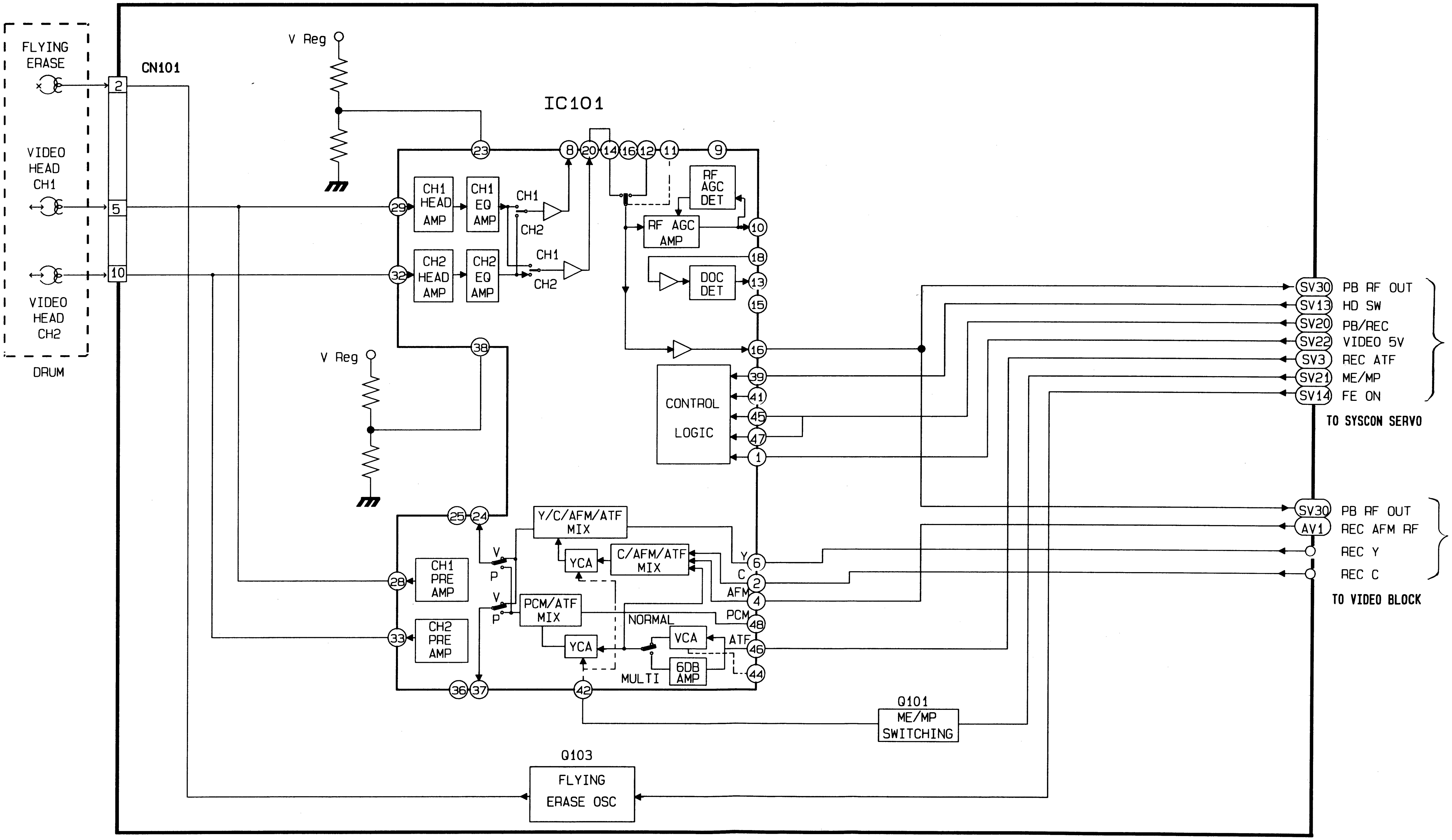
8-8 Video Record


FLYING ERASE OSC
AMP
FE
CH1
CH2
CYLINDER
REC AMP
REC AMP
25
24
29
32
36
37
VCA
C/AFM /ATF MIX
Y/C/AFM/ATF MIX
46
4
2
6
ATF FROM S/S
AFM FROM AUDIO
BUFFER
DELAY TIME ADJUSTMENT
AUDIO/ATF TRAP
IC101
CXA1202R
FE ON
VIDEO OUT
NONREC CHARA
EVF MUTE
JOG HD
JOG VD
EVF OUT
IC302
CCD DELAY
LPF
EQ
48
46
47
43
41
40
36
30
IC201
AN2491
LINE IN
CAM Y
50
52
AGC
CLAMP
OSD
ODS
6dB
ATT
MAIN LPF
REC
PB
57
58
59
61
62
RF AGC
SOFT LIMIT
MAIN LIMIT
DEMOD
DEMOD EQ
SUB LPF
AMP
MAIN LPF
CLAMP
CNR
NC
APT
CAM C
34
28
27
21
17
15
HSS
LIM
HPF
CLAMP
EMPHASYS
SMEAR COMP
MOD
GCA
CHROMA EM/DEMP
BURSTDM
ACC
C.LPF
ACC
BM
LPF
TARP
GCA
ACK
12
13
7
9
10
HD SW
VIDEO CLK
VIDEO SI
2
15
PAL JOG CHROMA PROCESS
Buffer
IC303

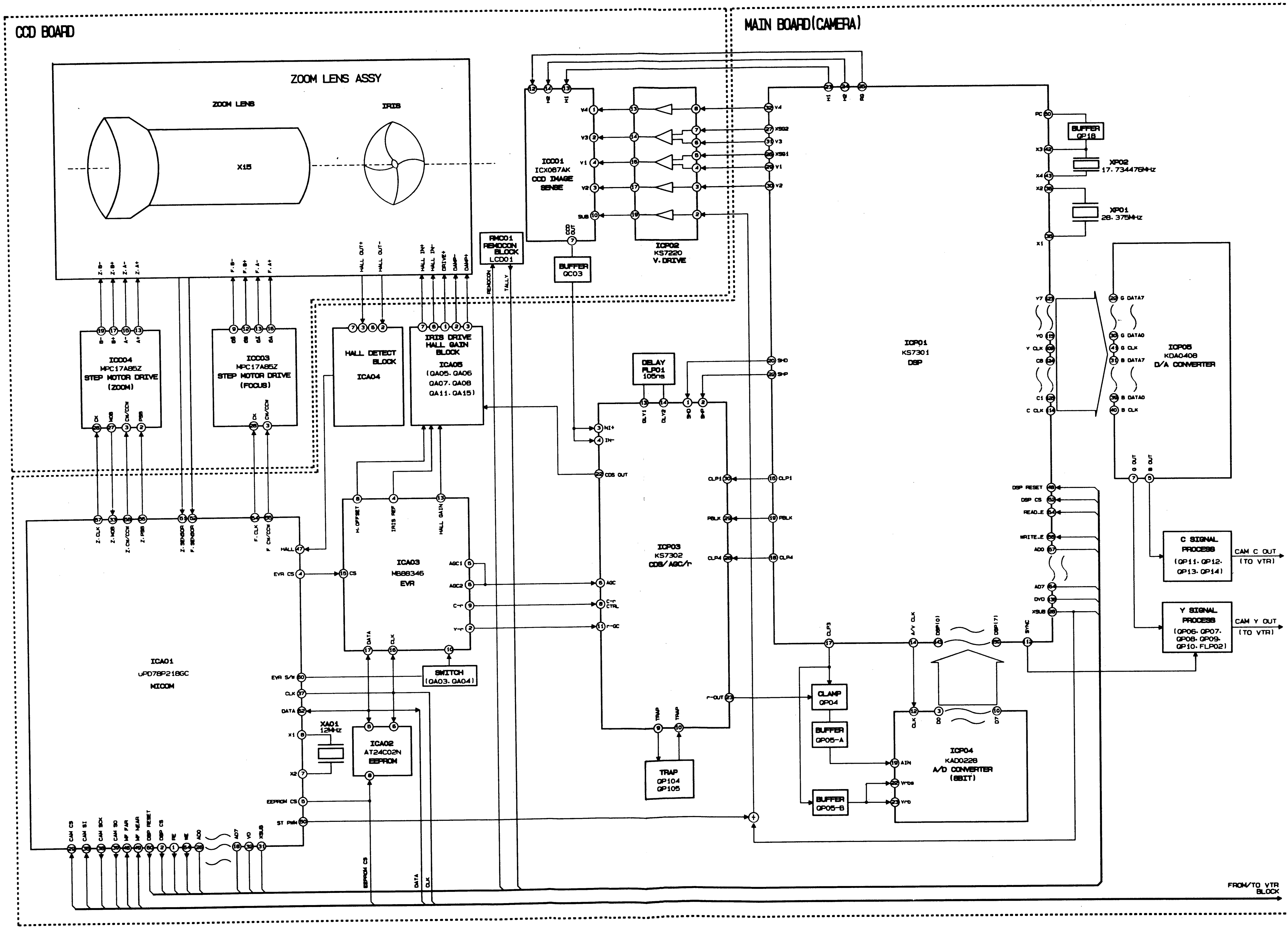
8-9 Audio


IC710
AUDIO AMP
IC801
MIC AMP
MIC
L
R
30
27
8
17
TO SYSCON/SERVO
SV15 PB H
AS6 CAM/LINE
AS1 AUDIO MUTE
SV13 HD SW
TO VIDEO
AV6 1.5M ADJ
AV5 FSC
V4 BPF ADJ
AV1 REC AFM
SV30 PB RF
AV12 1.7M ADJ
TO VIDEO
AUDIO L I/O AS10
AUDIO R I/O AV7
Q712
Q713
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
MUTE
MUTE DET
RF CONVERT CIRCUIT
VCC
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
MIX CTL
VREFH
MIC
LINE
DET
CTL
AGC
FADE MIC
AUDIO LPF
MATRIX
AUDIO LPF
REC
PB
CCA
LS
LPF
LIMIT
PB
SW NR
VCO
PHASE
1.5MHZ PLL
R/L/ST
ECL 1/E
DEV
LPF
LIMIT
DOD DET
MUTE DET
1.5MHZ
BPF
RF AGC
1.7MHZ
ST/MONO
MIX
LPF
VCO
1.7M PLL
SW NR
SP/LP
LS LPF
CCA
LS
REC
PB
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

8-10 Pre-Amp


FLYING
ERASE
VIDEO
HEAD
CH1
VIDEO
HEAD
CH2
DRUM
CN101
2
5
10
V Reg
V Reg
IC101
23
8
20
14
16
12
11
9
CH1
HEAD
AMP
CH1
EQ
AMP
CH1
CH2
CH2
HEAD
AMP
CH2
EQ
AMP
CH1
CH2
RF
AGC
DET
RF AGC
AMP
DOC
DET
29
32
10
18
13
15
16
39
41
45
47
1
38
CONTROL
LOGIC
25
24
Y/C/AFM/ATF
MIX
YCA
C/AFM/ATF
MIX
V
P
V
P
PCM/ATF
MIX
NORMAL
VCA
YCA
MULTI
6DB
AMP
Y
C
AFM
PCM
ATF
6
2
4
48
46
44
CH1
PRE
AMP
CH2
PRE
AMP
28
33
36
37
42
Q101
ME/MP
SWITCHING
Q103
FLYING
ERASE OSC
SV30 PB RF OUT
SV13 HD SW
SV20 PB/REC
SV22 VIDEO 5V
SV3 REC ATF
SV21 ME/MP
SV14 FE ON
TO SYSCON SERVO
SV30 PB RF OUT
AV1 REC AFM RF
REC Y
REC C
TO VIDEO BLOCK

8-11 CCD/Camera Main


CCD BOARD
MAIN BOARD(CAMERA)
ZOOM LENS ASSY
ZOOM LENS
IRIS
X15
Z.B-
Z.B+
Z.A-
Z.A+
F.B-
F.B+
F.A-
F.A+
HALL OUT+
HALL OUT-
HALL IN+
HALL IN-
DRIVE+
DAMP-
DAMP+
ICC04
MPC17A85Z
STEP MOTOR DRIVE
(ZOOM)
B-
B+
A-
A+
CK
MOB
CW/CCW
PSB
ICC03
MPC17A85Z
STEP MOTOR DRIVE
(FOCUS)
HALL DETECT BLOCK
ICA04
IRIS DRIVE HALL GAIN BLOCK
ICA05
(QA05.QA06
QA07.QA08
QA11.QA15)
RMC01
REMOCON BLOCK
LCD01
REMOCON
TALLY
ICC01
ICX087AK
CCD IMAGE SENSE
H2
H1
V4
V3
V1
V2
SUB
CCD OUT
BUFFER
QC03
ICP02
KS7220
V.DRIVE
XSG2
XSG1
RG
PC
BUFFER
QP18
X3
X4
X2
X1
XP02
17.734476MHz
XP01
28.375MHz
ICP01
KS7301
DSP
Y7
Y0
Y CLK
C8
C1
C CLK
G DATA7
G DATA0
G CLK
B DATA7
B DATA0
B CLK
ICP05
KDA0408
D/A CONVERTER
G OUT
B OUT
DELAY
FLP01
105ns
DLY1
DLY2
SHD
SHP
NI+
IN-
CDS OUT
CLP1
PBLK
CLP4
ICP03
KS7302
CDS/AGC/r
AGC
C-r CTRL
r-GC
r-OUT
TRAP
TRAP
QP104
QP105
DSP RESET
DSP CS
READ_E
WRITE_E
AD0
AD7
DVD
XSUB
C SIGNAL PROCESS
(QP11.QP12.
QP13.QP14)
CAM C OUT
(TO VTR)
Y SIGNAL PROCESS
(QP06.QP07.
QP08.QP09.
QP10.FLP02)
CAM Y OUT
(TO VTR)
CLP3
A/V CLK
DSP(0)
DSP(7)
SYNC
CLAMP
QP04
BUFFER
QP05-A
BUFFER
QP05-B
ICP04
KAD0226
A/D CONVERTER
(8BIT)
CLK
D0
D7
AIN
Vrbs
Vrb
Z.CLK
Z.MOB
Z.CW/CCW
Z.PSB
Z.SENSOR
F.SENSOR
F.CLK
F CW/CCW
HALL
EVR CS
H.OFFSET
IRIS REF
HALL GAIN
ICA03
MB88346
EVR
CS
AGC1
AGC2
C-r
Y-r
DATA
CLK
SWITCH
(QA03.QA04)
ICA01
uPD78P218GC
MICOM
EVR S/W
CLK
DATA
X1
X2
XA01
12MHz
ICA02
AT24C02N
EEPROM
EEPROM CS
ST PWM
CAM CS
CAM SI
CAM SCK
CAM SO
MF FAR
MF NEAR
DSP RESET
DSP CS
RE
WE
AD0
AD7
VD
XSUB
EEPROM CS
DATA
CLK
FROM/TO VTR BLOCK

9. PCB Diagrams

Page

9-1 Main ---------------------------------- 9-2

9-2 DC/DC Converter ------------------------ 9-4

9-3 Function ------------------------------ 9-5

9-4 A/V Jack ------------------------------ 9-5

9-5 CCD ---------------------------------- 9-6

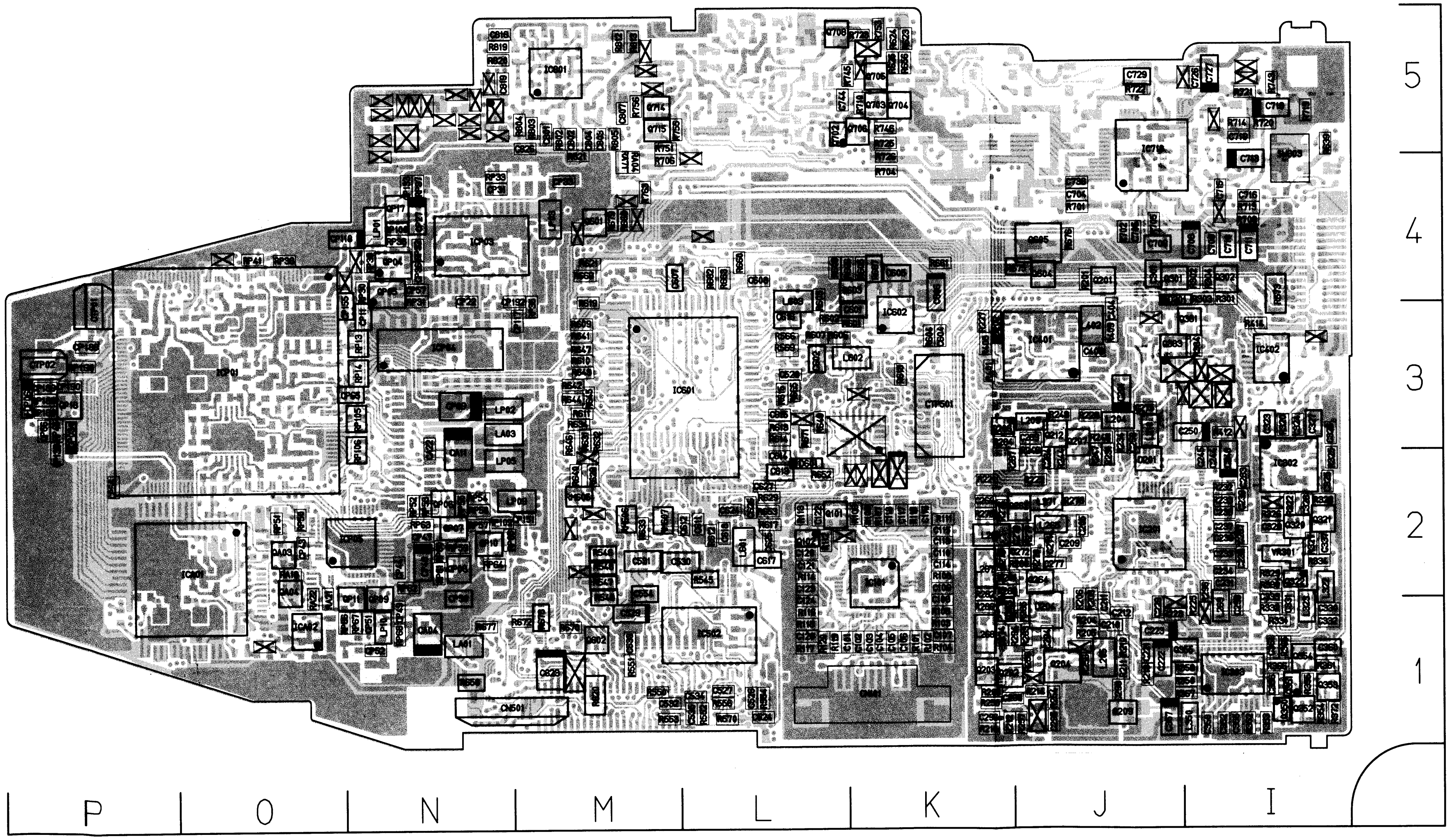
9-6 EVF (VP-K80) -------------------------- 9-7

9-7 Back Light (VP-K85) -------------------- 9-7

9-8 CVF Drive (VP-K85) --------------------- 9-8

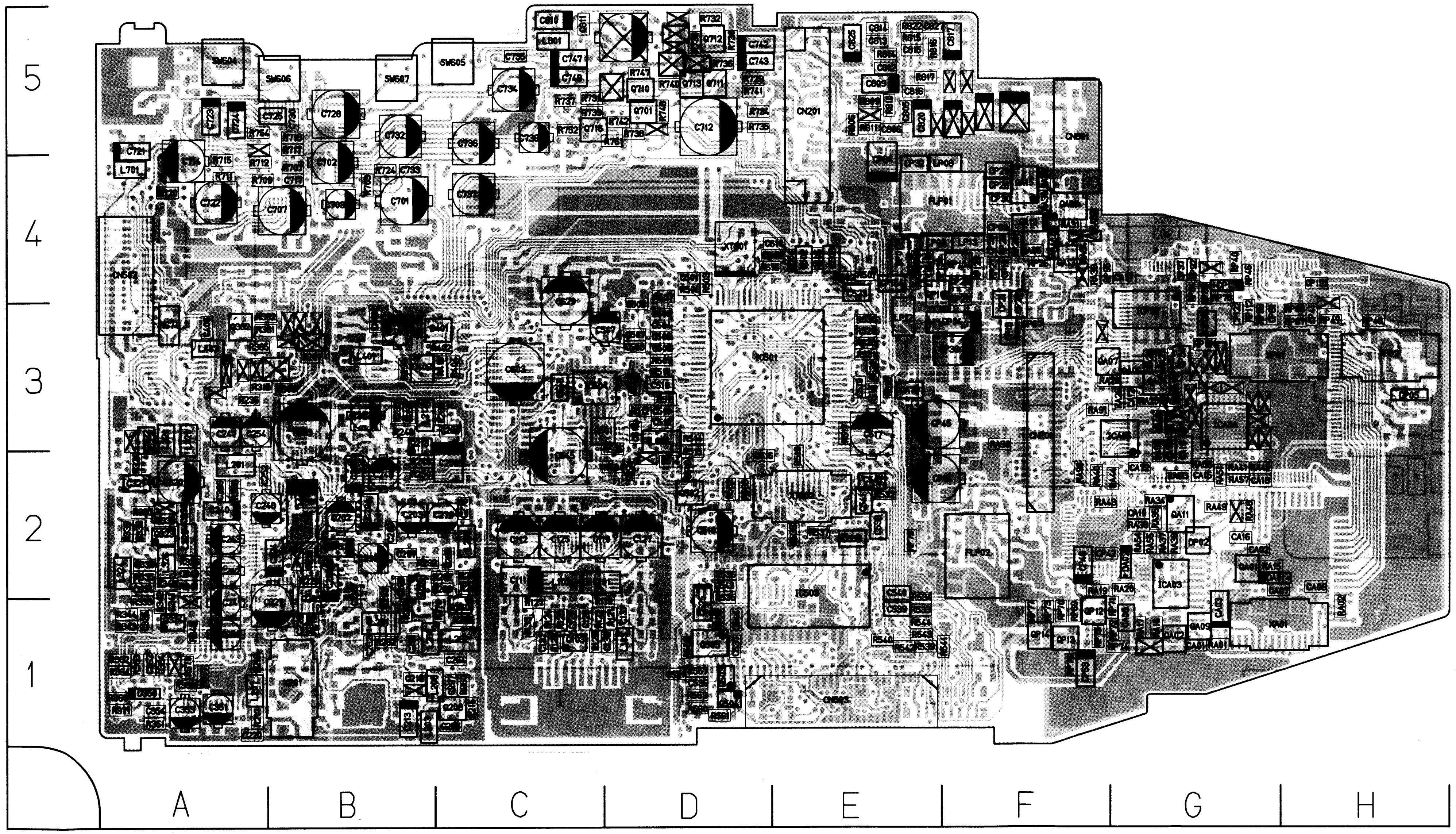
9-9 CVF Process (VP-K85) ------------------ 9-8

9-1 Main



LOCATION	COORDINATES
D201	2-J
D202	3-J
D204	1-J
D301	4-I
D701	5-K
IC101	2-K
IC302	2-I
IC303	1-I
IC401	3-J
IC402	3-I
IC502	1-L
IC601	3-L
IC602	1-M
IC710	4-J
IC801	5-M
Q101	2-L
Q102	2-L
Q201	4-J
Q202	1-K
Q203	1-K
Q204	1-J
Q206	3-J
Q207	3-J
Q209	3-I
Q212	3-J
Q262	2-J
Q263	1-K
Q264	2-J
Q301	4-J
Q302	4-I
Q320	2-I
Q321	2-I
Q322	2-I
Q350	1-I
Q351	1-I
Q352	1-I
Q353	1-I
Q354	1-I
Q355	1-I
Q381	3-I
Q383	3-I
Q601	4-M
Q602	3-K
Q604	4-J
Q605	4-J
Q702	5-L
Q703	5-K
Q704	5-K
Q705	5-K
Q706	5-K
Q708	5-L
Q714	5-L
Q715	5-M
VR301	2-I

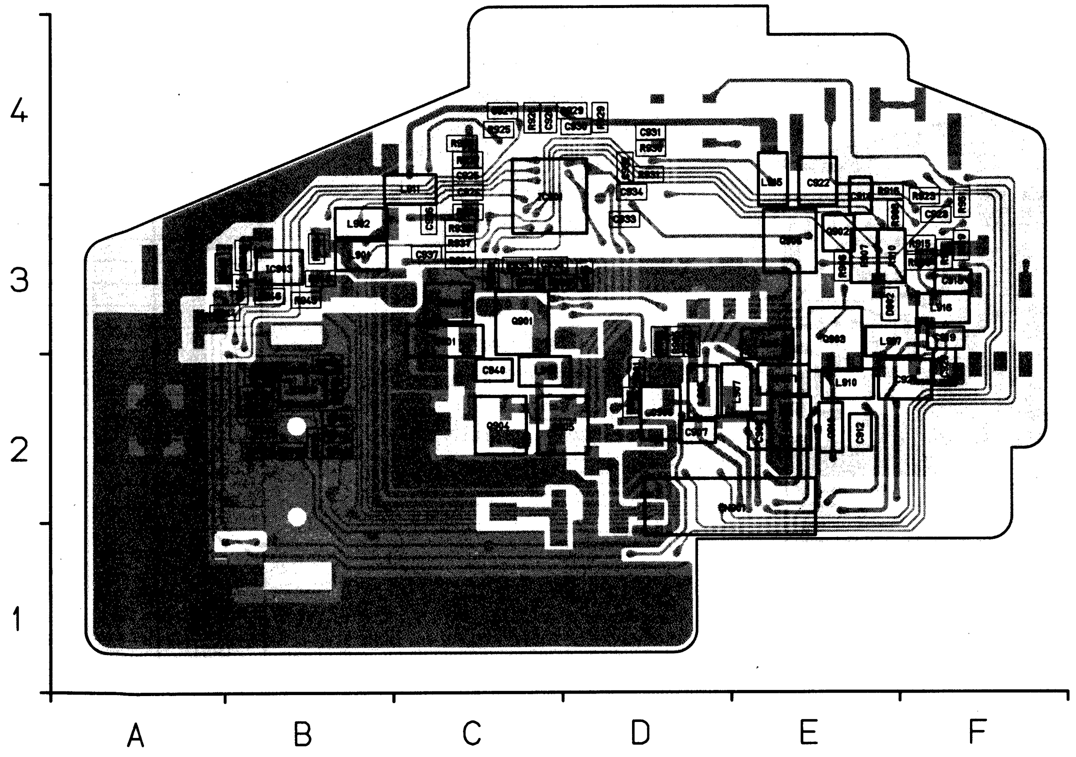
(Component Side)



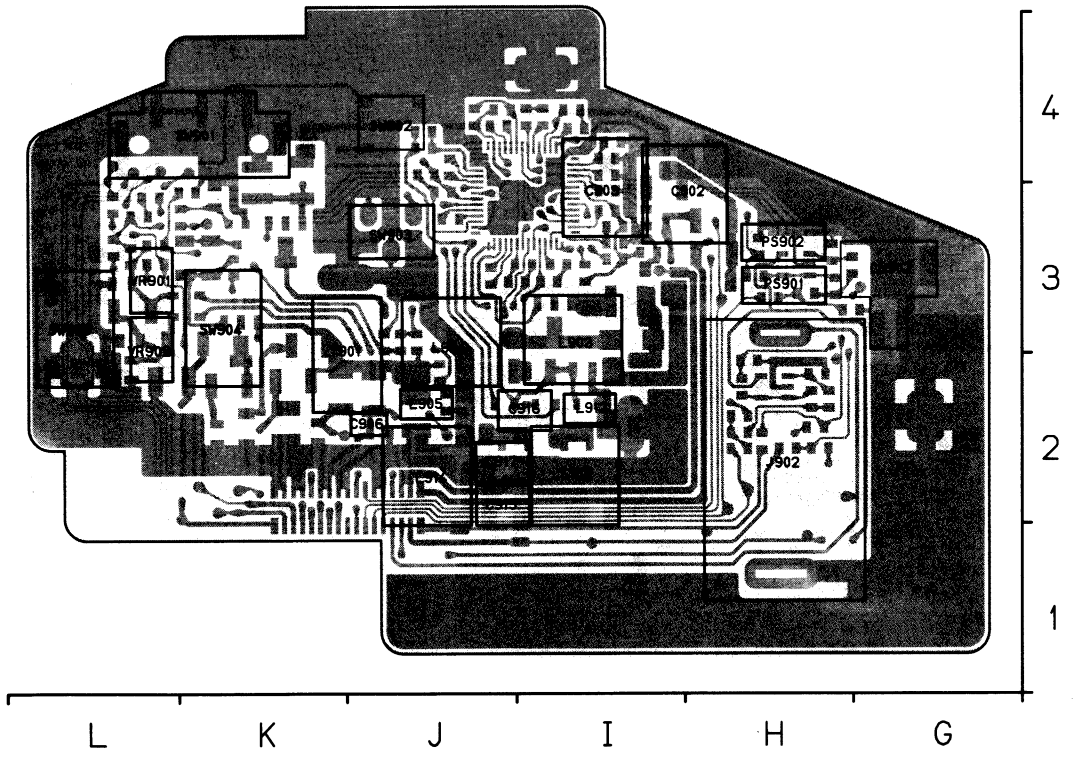
LOCATION	COORDINATES
D401	3-C
D402	3-B
DA01	2-G
DA02	2-G
DA04	4-F
DP02	2-G
DP04	3-F
DP13	3-G
IC501	3-D
IC503	1-E
IC504	3-C
ICA03	2-G
ICA04	2-G
ICA05	2-G
ICP07	3-G
ICP08	3-G
Q103	1-C
Q205	1-B
Q208	1-C
Q213	2-B
Q260	1-C
Q265	2-B
Q323	2-A
Q324	1-A
Q350	1-A
Q382	3-A
Q501	3-C
Q502	2-D
Q503	1-D
Q504	1-D
Q505	1-D
Q701	5-D
Q710	5-D
Q711	5-D
Q712	5-D
Q713	5-D
Q716	5-C
QA01	2-G
QA02	1-G
QA05	3-G
QA06	3-G
QA07	3-F
QA08	4-F
QA11	2-G
QA13	4-F
QA15	4-F
QP104	4-F
QP105	3-E
QP12	1-F
QP13	1-F
QP14	1-F

(Conductor Side)

9-2 DC/DC Converter

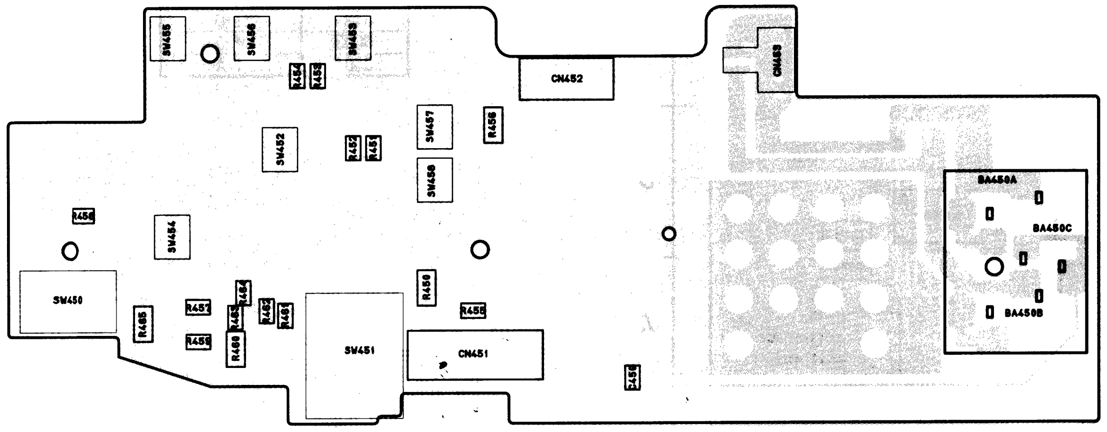

4
3
2
1
A
B
C
D
E
F
Q901
L910
C912

LOCATION	COORDINATES
CN902	3-G
J902	2-H
L903	3-I
L904	3-J
L905	2-J
L912	2-I
L913	2-I
L914	2-J
PS901	3-H
PS902	3-H
SW901	3-K
SW902	4-J
SW903	3-J
SW904	3-K
SW905	3-L
T901	3-K
VR901	3-L
VR902	3-L

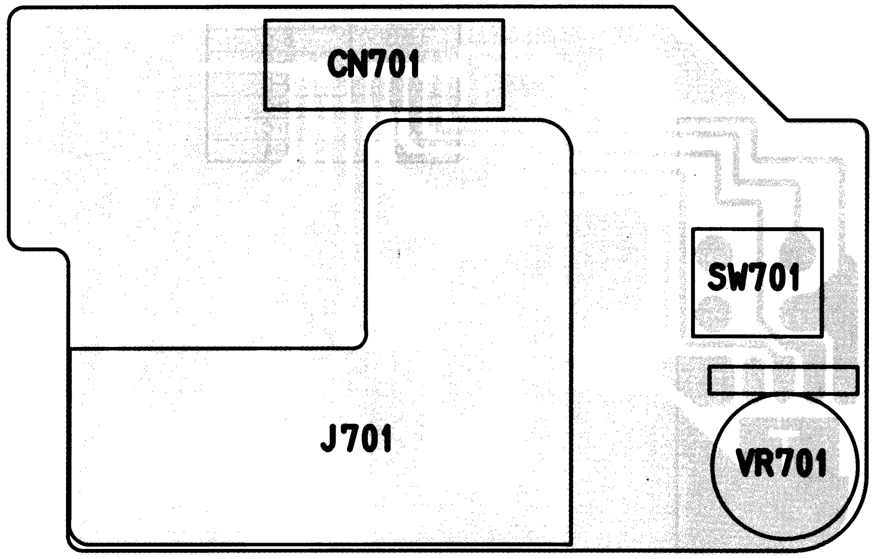

4
3
2
1
L
K
J
I
H
G
PS902
PS901
VR901
SW904
C902
J902

LOCATION	COORDINATES
CN901	2-D
D901	3-C
D902	3-E
IC901	3-C
IC902	2-B
IC903	3-B
L901	3-B
L902	3-B
L906	2-D
L907	2-E
L908	2-E
L909	3-E
L910	2-E
L911	3-C
L915	4-E
L916	3-F
L917	3-E
L918	2-C
Q901	3-C
Q902	3-E
Q903	3-E
Q904	2-C
Q905	2-C
Q906	3-E

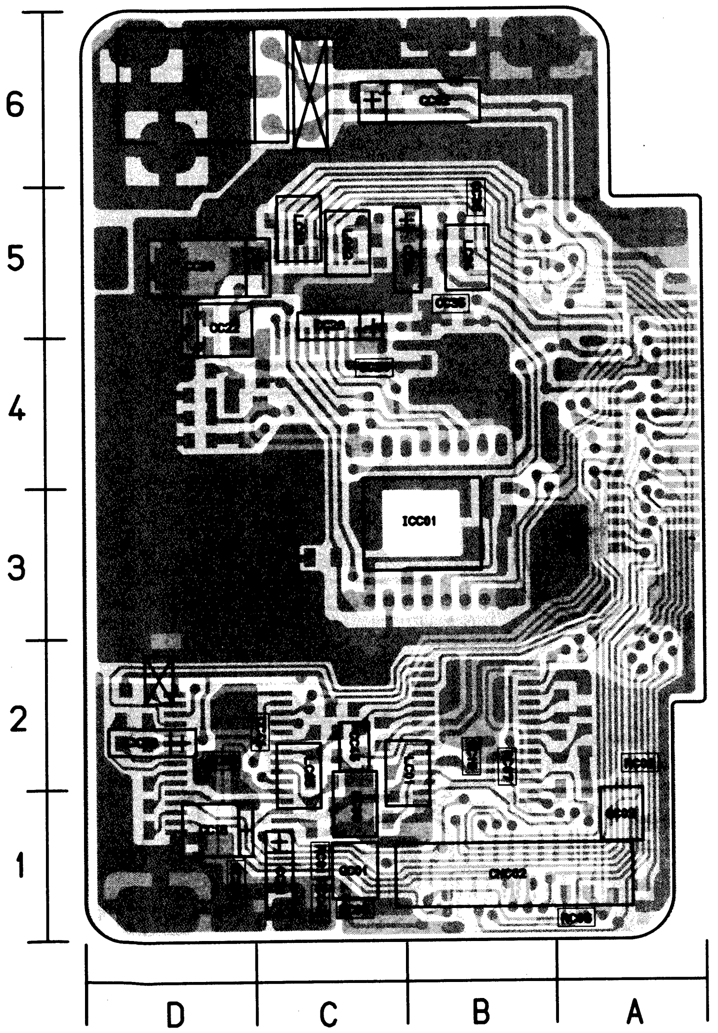
9-3 Function


SW455
SW456
SW453
R454
R453
CN452
CN453
SW452
R452
R451
SW457
R456
SW458
R458
SW454
BA450A
BA450C
BA450B
SW450
R465
R457
R459
R464
R463
R460
R462
R461
SW451
R450
R455
CN451
C456

9-4 A/V Jack

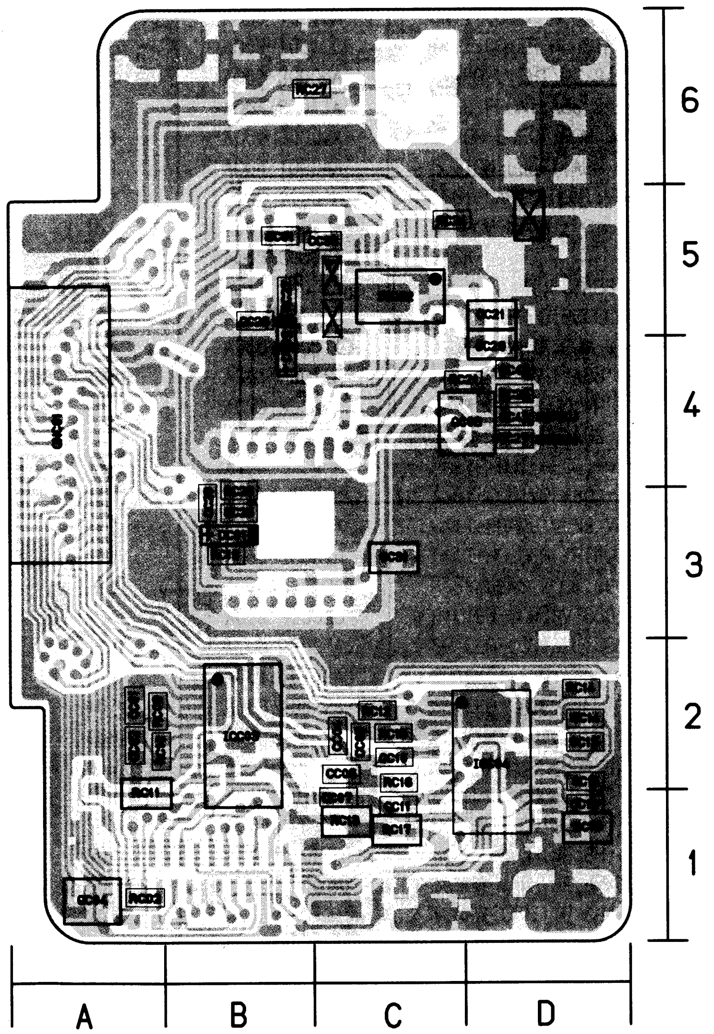

CN701
SW701
J701
VR701

9-5 CCD


6
5
4
3
2
1
ICC01
D
C
B
A

LOCATION	COORDINATES
ICC01	3-B
LC01	2-B
LC02	5-C
LC03	5-C
LC04	5-B
LC05	2-C
LC06	1-C
QC01	1-C
QC02	1-A

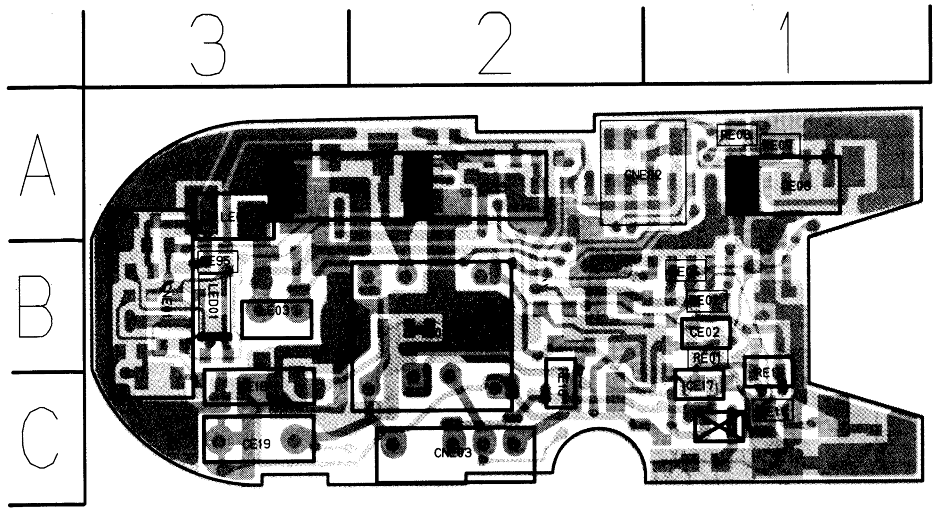
(Component Side)


6
5
4
3
2
1
A
B
C
D

LOCATION	COORDINATES
ICC02	5-C
ICC03	2-B
ICC04	2-D
QC03	4-D
QC04	1-A

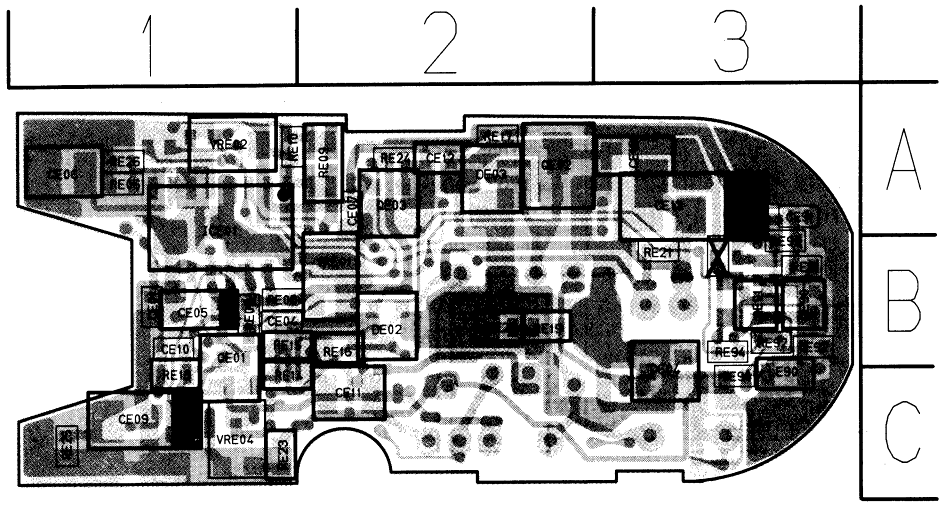
(Conductor Side)

9-6 EVF (VP-K80)


3
2
1
A
B
C
LED01
LE03
CE19
CNE03
CNE02
CE02
RE01
CE17

(Component Side)

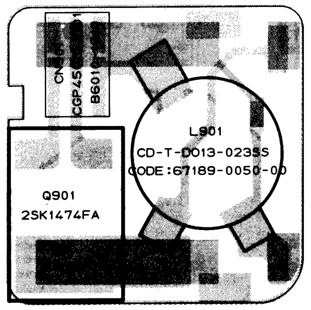
LOCATION	COORDINATES
CNE01	3-B
CNE02	2-A
CNE03	2-C
FTE01	2-B
LE01	3-A
LE03	3-B
LED01	3-B


1
2
3
A
B
C
CE05
CE10
CE09
QE01
VRE04
DE02
CE11
RE21

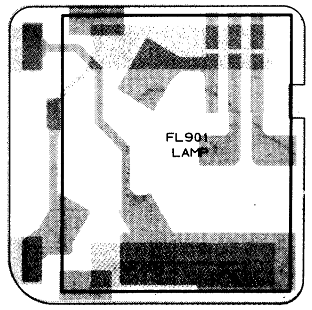
(Conductor Side)

LOCATION	COORDINATES
CE16	3-A
DE02	2-B
DE03	2-A
DE04	3-B
ICE01	1-A
LE90	3-C
QE01	1-B
QE02	2-A
QE03	2-A
QE90	3-B
QE91	3-B
VRE01	2-B
VRE02	1-A
VRE04	1-C

9-7 Back Light (VP-K85)

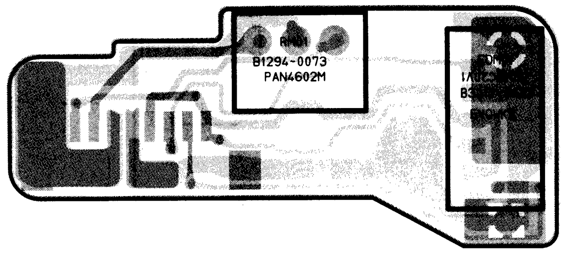

L901
CD-T-D013-0235S
CODE:67189-0050-00
Q901
2SK1474FA

(Component Side)

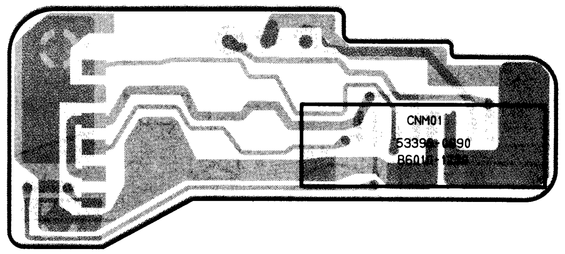


(Conductor Side)

9-8 CVF Drive (VP-K85)

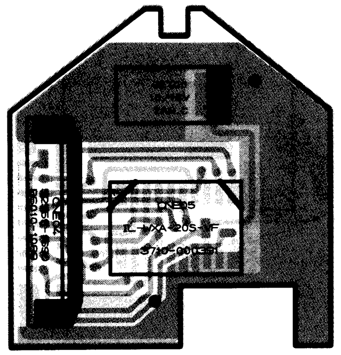

B1294-0073
PAN4602M

(Component Side)

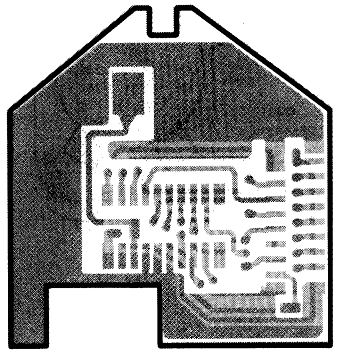


(Conductor Side)

9-9 CVF Process (VP-K85)

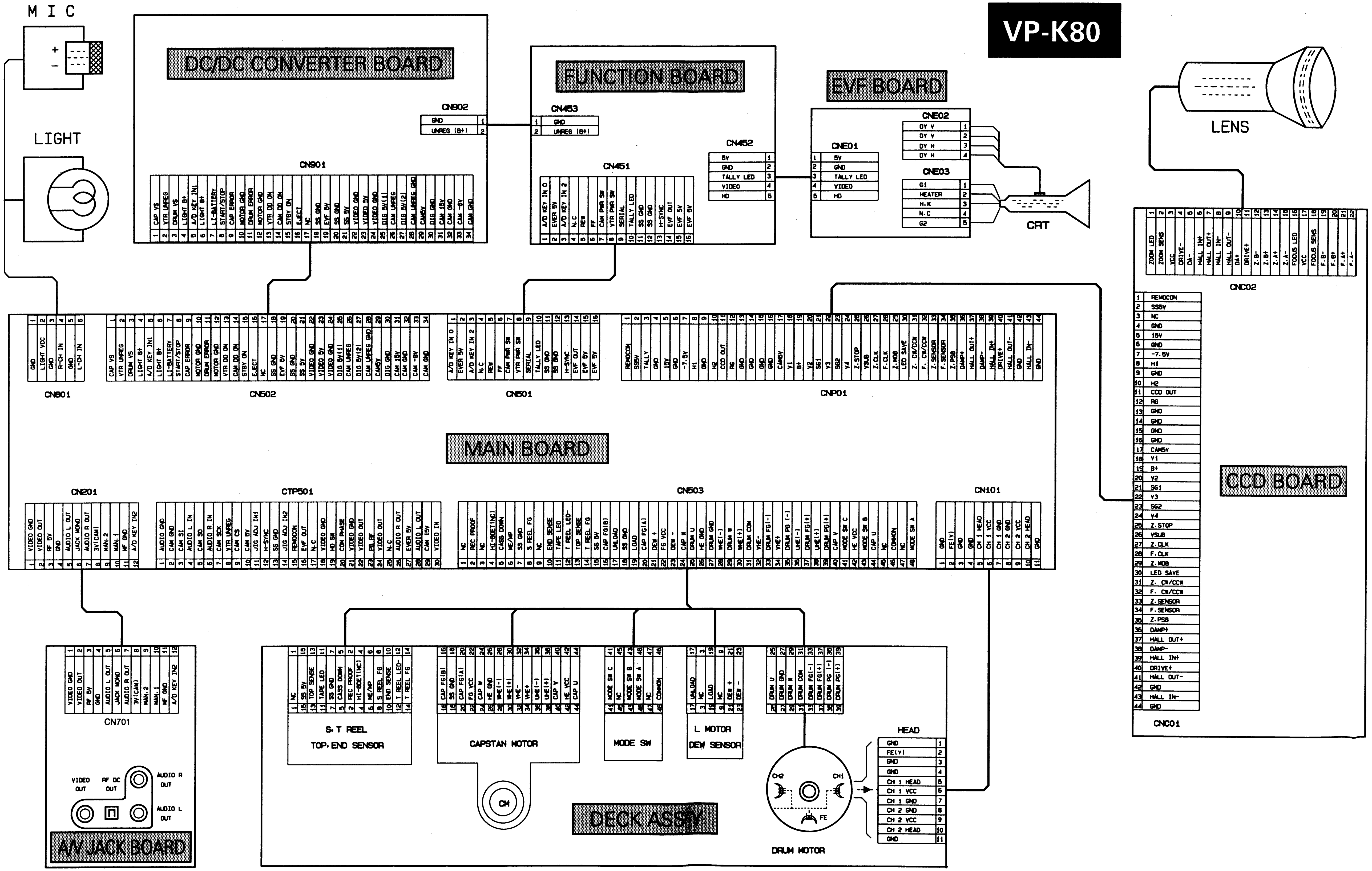


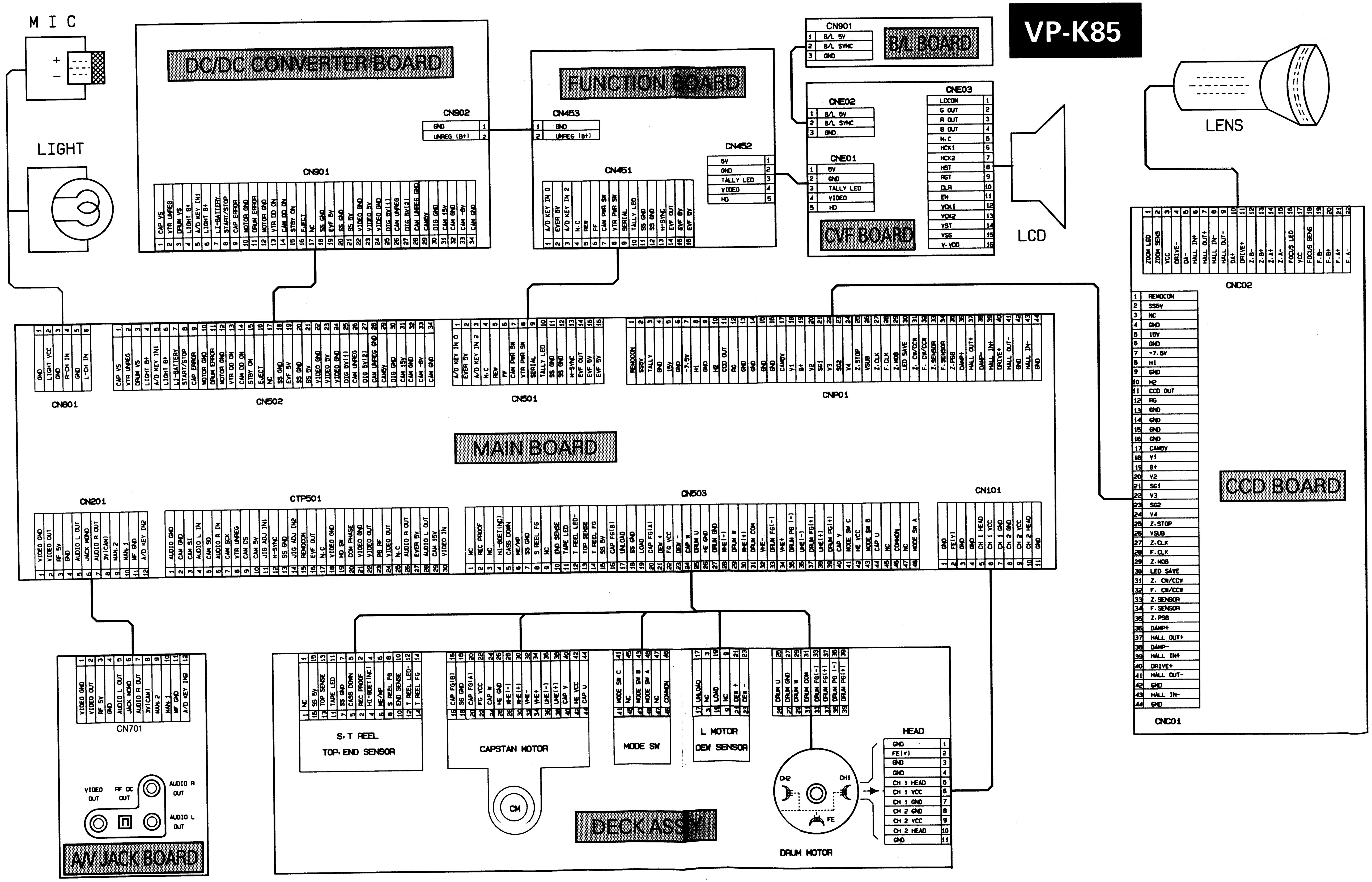
(Component Side)



(Conductor Side)

10. Wiring Diagrams


VP-K80
MIC
LIGHT
DC/DC CONVERTER BOARD
CN902
CN901
FUNCTION BOARD
CN453
CN452
CN451
EVF BOARD
CNE01
CNE02
CNE03
CRT
LENS
CNC02
CN801
CN502
CN501
CNP01
MAIN BOARD
CCD BOARD
CNC01
CN201
CTP501
CN503
CN101
CN701
A/V JACK BOARD
VIDEO OUT
RF DC OUT
AUDIO R OUT
AUDIO L OUT
S·T REEL TOP·END SENSOR
CAPSTAN MOTOR
CM
MODE SW
L MOTOR DEW SENSOR
HEAD
CH2
CH1
FE
DRUM MOTOR
DECK ASSY


VP-K85
MIC
LIGHT
DC/DC CONVERTER BOARD
CN902
GND
UNREG (B+)
CN901
FUNCTION BOARD
CN453
GND
UNREG (B+)
CN451
CN452
5V
GND
TALLY LED
VIDEO
HD
B/L BOARD
CN901
B/L 5V
B/L SYNC
GND
CVF BOARD
CNE02
B/L 5V
B/L SYNC
GND
CNE01
5V
GND
TALLY LED
VIDEO
HD
CNE03
LCCOM
G OUT
R OUT
B OUT
N.C
HCK1
HCK2
HST
RGT
CLR
EN
VCK1
VCK2
VST
VSS
V-VDD
LCD
LENS
CCD BOARD
CNC02
CNC01
REMOCON
SS5V
NC
GND
15V
GND
-7.5V
H1
GND
H2
CCD OUT
RG
GND
GND
GND
GND
CAM5V
V1
B+
V2
SG1
V3
SG2
V4
Z.STOP
VSUB
Z.CLK
F.CLK
Z.MOB
LED SAVE
Z. CW/CCW
F. CW/CCW
Z.SENSOR
F.SENSOR
Z.PSB
DAMP+
HALL OUT+
DAMP-
HALL IN+
DRIVE+
HALL OUT-
GND
HALL IN-
GND
MAIN BOARD
CN801
CN502
CN501
CNP01
CN201
CTP501
CN503
CN101
A/V JACK BOARD
CN701
VIDEO OUT
RF DC OUT
AUDIO R OUT
AUDIO L OUT
DECK ASSY
S.T REEL
TOP. END SENSOR
CAPSTAN MOTOR
CM
MODE SW
L MOTOR
DEW SENSOR
HEAD
GND
FE(V)
GND
GND
CH 1 HEAD
CH 1 VCC
CH 1 GND
CH 2 GND
CH 2 VCC
CH 2 HEAD
GND
CH2
CH1
FE
DRUM MOTOR

11. Schematic Diagrams

Page

◆ Block Identification of Main PCB ---------------- 11-2

11-1 Adaptor ---------------------------------- 11-3

11-2 DC/DC Converter ------------------------ 11-4

11-3 Function ---------------------------------- 11-5

11-4 Light -------------------------------------- 11-6

11-5 A/V Jack --------------------------------- 11-6

11-6 Mic -- 11-7

11-7 Audio ------------------------------------- 11-8

11-8 System Control/Servo -------------------- 11-10

11-9 Video -------------------------------------- 11-12

11-10 EVF (VP-K80) --------------------------- 11-14

11-11 CVF (VP-K85) --------------------------- 11-16

11-13 Camera Main --------------------------- 11-18

11-12 CCD ------------------------------------- 11-22

Note

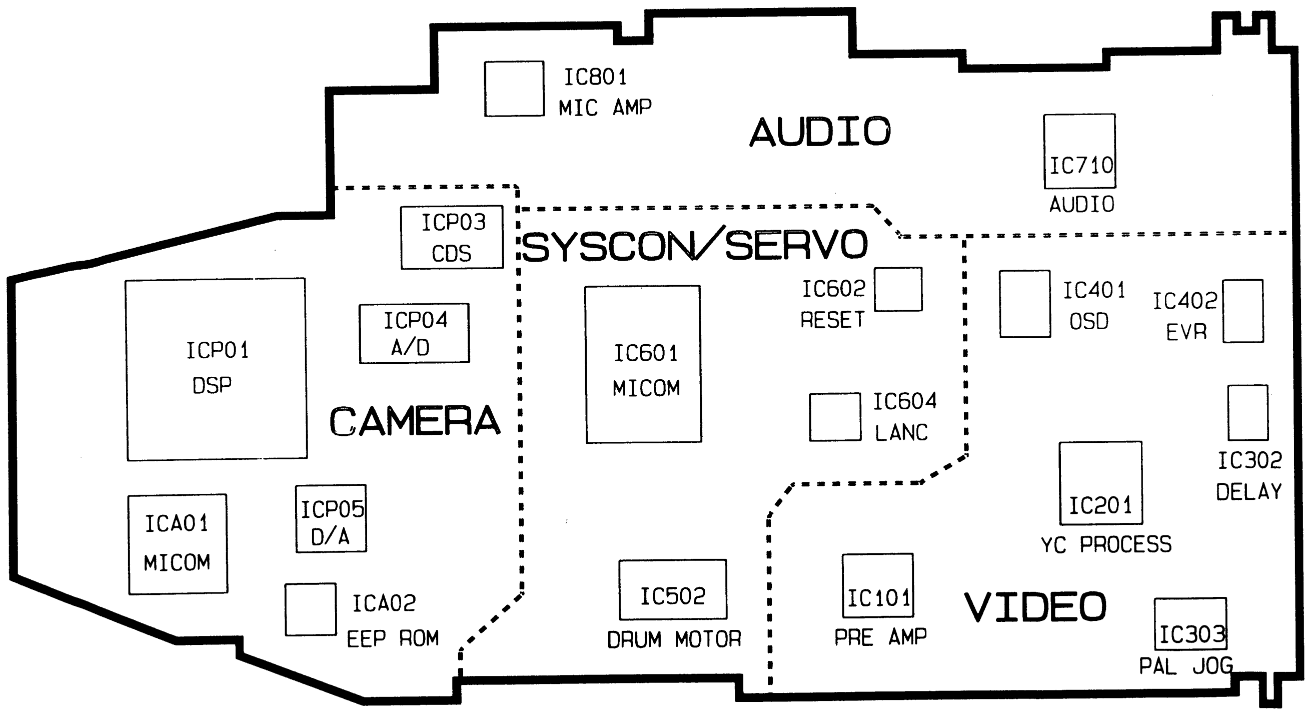
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

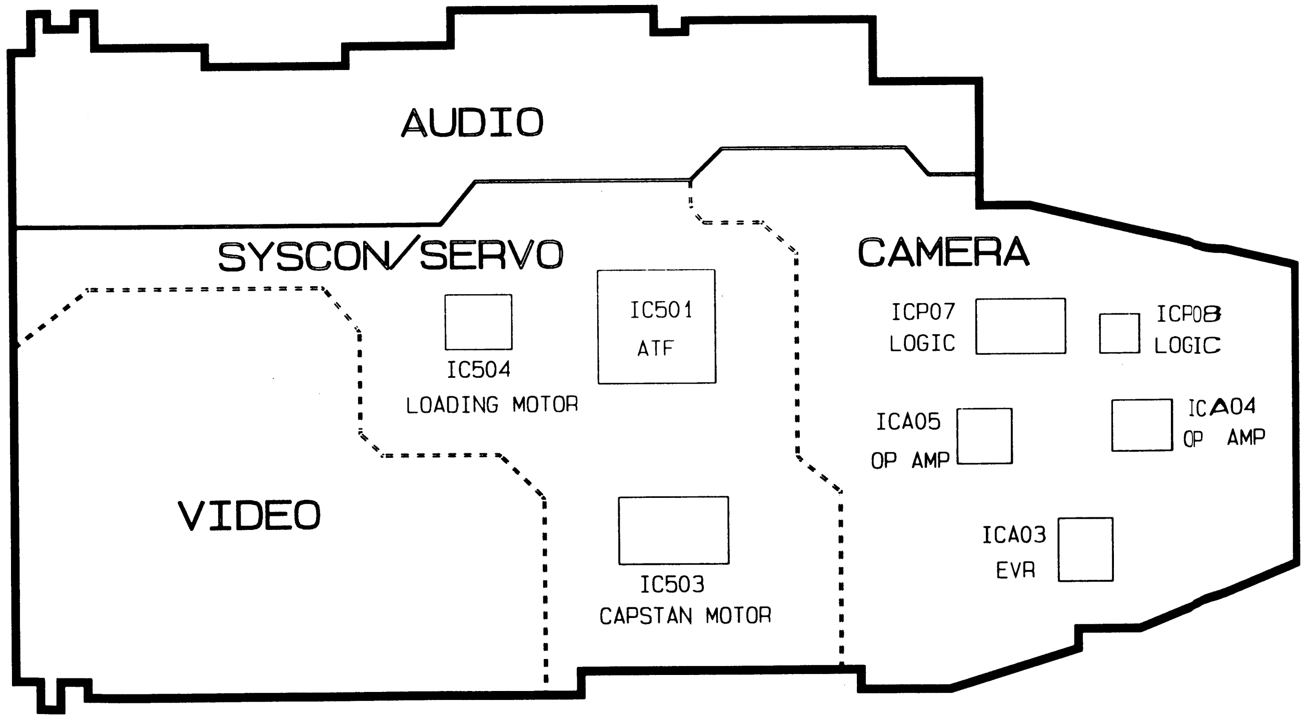
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ Block Identification of Main PCB

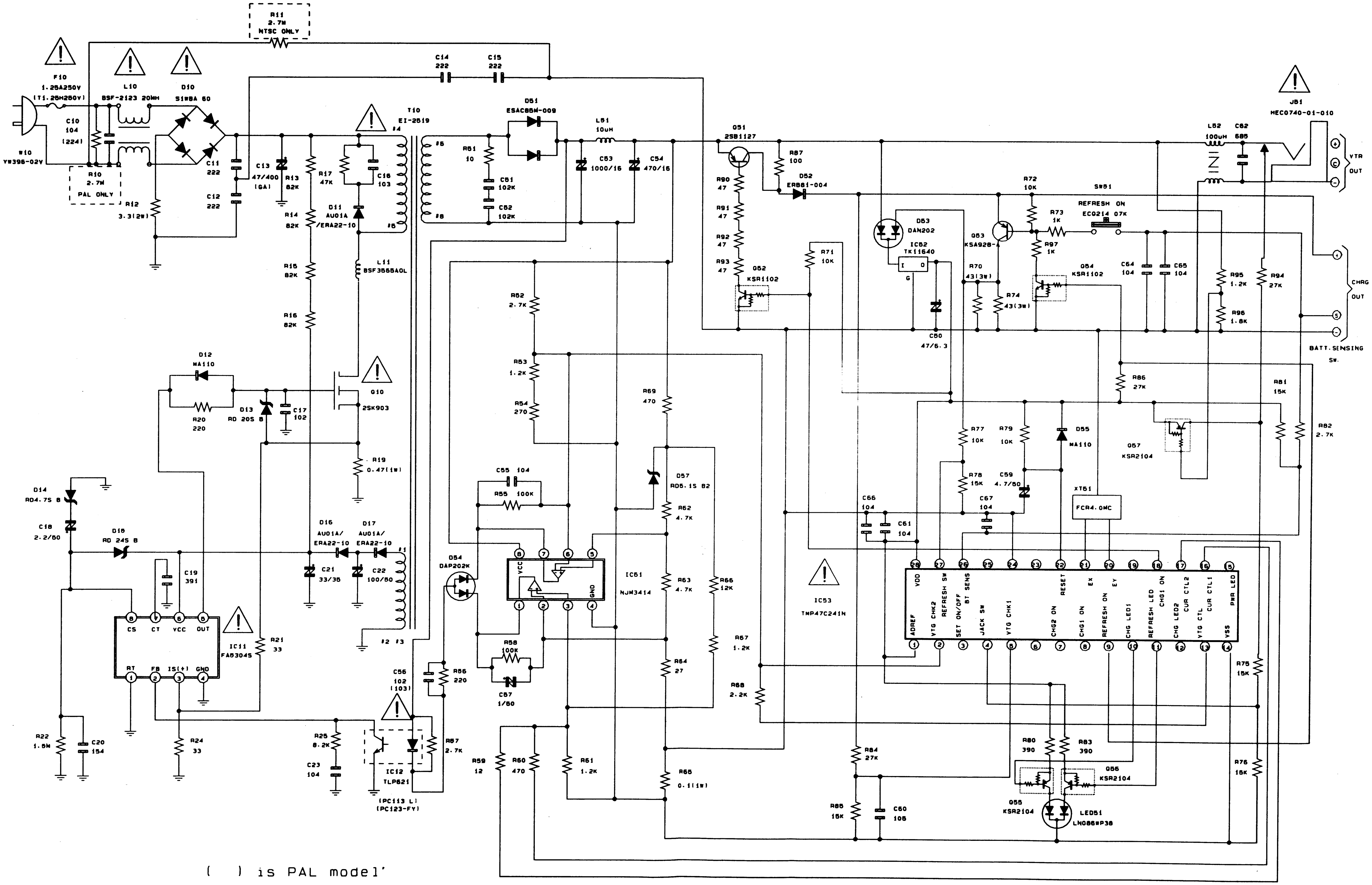

IC801
MIC AMP
AUDIO
IC710
AUDIO
ICP03
CDS
SYSCON/SERVO
IC602
RESET
IC401
OSD
IC402
EVR
ICP04
A/D
ICP01
DSP
IC601
MICOM
CAMERA
IC604
LANC
IC302
DELAY
IC201
YC PROCESS
ICA01
MICOM
ICP05
D/A
ICA02
EEP ROM
IC502
DRUM MOTOR
IC101
PRE AMP
VIDEO
IC303
PAL JOG

(Component Side)


AUDIO
SYSCON/SERVO
CAMERA
IC501
ATF
ICP07
LOGIC
ICP08
LOGIC
IC504
LOADING MOTOR
ICA05
OP AMP
ICA04
OP AMP
VIDEO
ICA03
EVR
IC503
CAPSTAN MOTOR

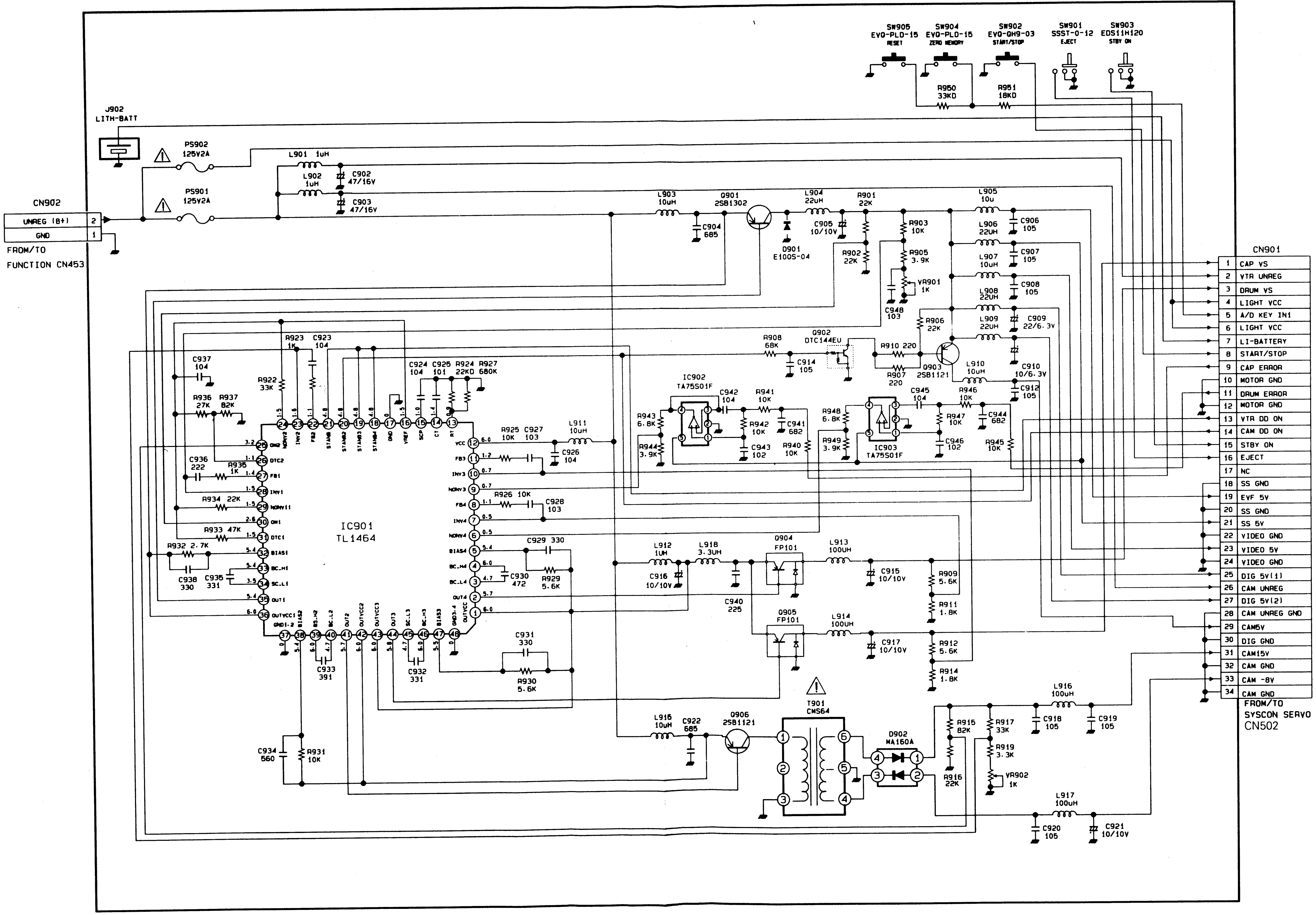
(Conductor Side)

11-1 Adaptor

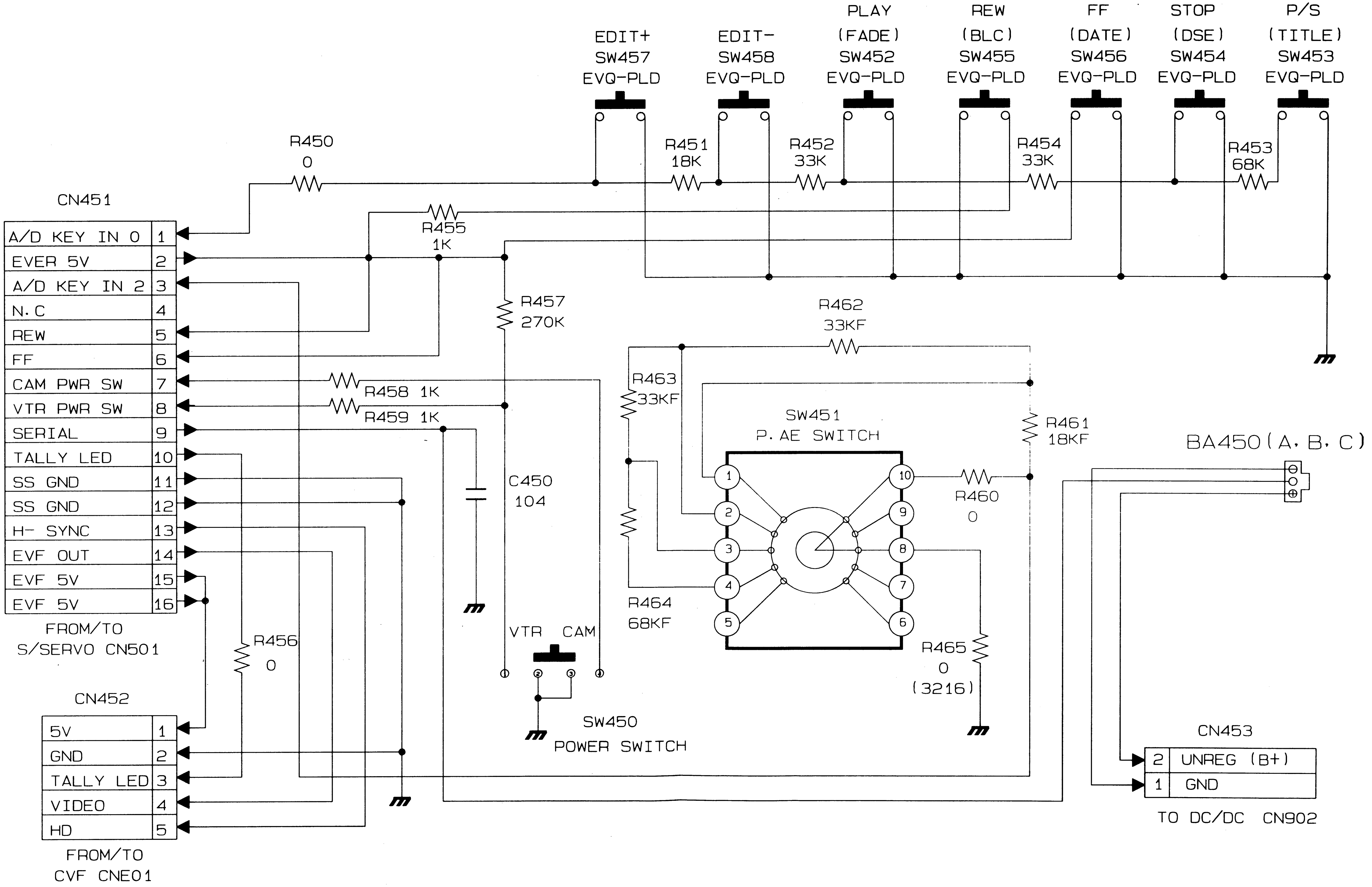

R11
2.7W
NTSC ONLY
F10
1.25A250V
(T1.25H250V)
L10
BSF-2123 20MH
D10
S1WBA 60
W10
VW395-02V
C10
104
(224)
R10
2.7W
PAL ONLY
R12
3.3(2W)
C11
222
C12
222
C13
47/400
(GA)
R13
82K
R17
47K
C16
103
R14
82K
D11
AU01A
/ERA22-10
R15
82K
R16
82K
L11
BSF3568AOL
T10
EI-2819
C14
222
C15
222
D51
ESAC88M-009
L51
10uH
R51
10
C51
102K
C52
102K
C53
1000/16
C54
470/16
D12
MA110
R20
220
D13
RD 20S B
C17
102
Q10
2SK903
R19
0.47(1W)
D14
RD4.7S B
C18
2.2/50
D15
RD 24S B
C19
391
D16
AU01A/
ERA22-10
D17
AU01A/
ERA22-10
C21
33/35
C22
100/50
IC11
FA5304S
CS
CT
VCC
OUT
RT
FB
IS(+)
GND
R21
33
R22
1.5M
C20
154
R24
33
R25
8.2K
C23
104
IC12
TLP621
(PC113 L)
(PC123-FY)
C56
102
(103)
R56
220
R57
2.7K
D54
DAP202K
C55 104
R55 100K
R58
100K
C57
1/50
R59
12
R60
470
R61
1.2K
R52
2.7K
R53
1.2K
R54
270
R69
470
D57
RD5.1S B2
R62
4.7K
R63
4.7K
R66
12K
R64
27
R65
0.1(1W)
R67
1.2K
R68
2.2K
IC51
NJM3414
Q51
2SB1127
R87
100
D52
ERB81-004
R90
47
R91
47
R92
47
R93
47
Q52
KSR1102
R71
10K
D53
DAN202
IC52
TK11640
I O
G
C60
47/6.3
R72
10K
Q53
KSA928-
R73
1K
R97
1K
SW51
REFRESH ON
EC0214 07K
R70
43(3W)
R74
43(3W)
Q54
KSR1102
C64
104
C65
104
L52
100uH
C62
685
JB1
MEC0740-01-010
VTR
OUT
CHRG
OUT
BATT.SENSING
SW.
R95
1.2K
R94
27K
R96
1.8K
R86
27K
R81
15K
R82
2.7K
Q57
KSR2104
R77
10K
R79
10K
D55
MA110
R78
15K
C59
4.7/50
C67
104
X51
FCR4.0MC
C66
104
C61
104
IC53
TMP47C241N
VDD
VTG CHK2
REFRESH SW
SET ON/OFF
BT SENS
JACK SW
VTG CHK1
RESET
CHG2 ON
CHG1 ON
EX
REFRESH ON
EY
CHG LED1
REFRESH LED
CHG1 ON
CHG LED2
CUR CTL2
VTG CTL
CUR CTL1
PWR LED
VSS
ADREF
R84
27K
R85
15K
C60
106
R80
390
R83
390
Q56
KSR2104
Q55
KSR2104
LED51
LN088WP38
R75
15K
R76
15K

( ) is PAL model'

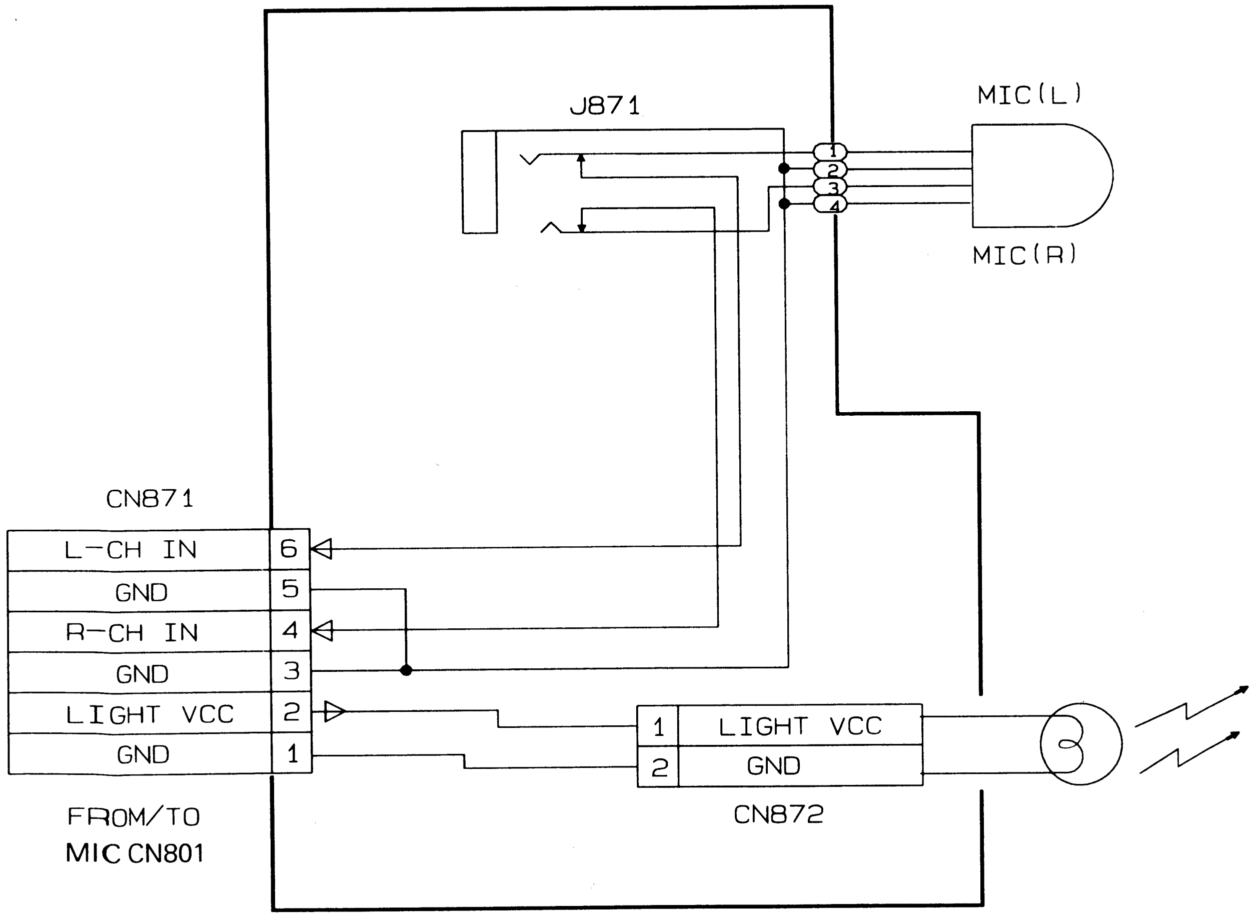
11-2 DC/DC Converter


SW905
EVQ-PLD-15
RESET
SW904
EVQ-PLD-15
ZERO MEMORY
SW902
EVQ-QH9-03
START/STOP
SW901
SSST-0-12
EJECT
SW903
EDS11H120
STBY ON
R950
33KD
R951
18KD
J902
LITH-BATT
PS902
125V2A
PS901
125V2A
L901 1uH
L902 1uH
C902 47/16V
C903 47/16V
CN902
UNREG (B+)
GND
2
1
FROM/TO
FUNCTION CN453
L903 10uH
C904 685
Q901 2SB1302
D901 E10QS-04
L904 22uH
C905 10/10V
R901 22K
R902 22K
R903 10K
R905 3.9K
VR901 1K
C948 103
R906 22K
L905 10u
L906 22uH
C906 105
L907 10uH
C907 105
L908 22uH
C908 105
L909 22uH
C909 22/6.3V
R908 68K
Q902 DTC144EU
C914 105
R910 220
R907 220
Q903 2SB1121
L910 10uH
C910 10/6.3V
C912 105
IC902 TA75S01F
C942 104
R941 10K
R943 6.8K
R944 3.9K
R942 10K
C941 682
C943 102
R940 10K
C945 104
R946 10K
R948 6.8K
R949 3.9K
R947 10K
C944 682
C946 102
R945 10K
IC903 TA75S01F
R923 1K
C923 104
C937 104
R922 33K
R936 27K
R937 82K
C924 104
C925 101
R924 22KD
R927 680K
R925 10K
C927 103
L911 10uH
C926 104
R926 10K
C928 103
C936 222
R935 1K
R934 22K
R933 47K
R932 2.7K
C938 330
C935 331
IC901
TL1464
C929 330
C930 472
R929 5.6K
C931 330
R930 5.6K
C933 391
C932 331
C934 560
R931 10K
L912 1uH
L918 3.3uH
C916 10/10V
Q904 FP101
L913 100uH
C915 10/10V
R909 5.6K
R911 1.8K
C940 225
Q905 FP101
L914 100uH
C917 10/10V
R912 5.6K
R914 1.8K
L915 10uH
C922 685
Q906 2SB1121
T901 CWS64
D902 MA160A
R915 82K
R916 22K
R917 33K
R919 3.3K
VR902 1K
L916 100uH
C918 105
C919 105
L917 100uH
C920 105
C921 10/10V
CN901
1 CAP VS
2 VTR UNREG
3 DRUM VS
4 LIGHT VCC
5 A/D KEY IN1
6 LIGHT VCC
7 LI-BATTERY
8 START/STOP
9 CAP ERROR
10 MOTOR GND
11 DRUM ERROR
12 MOTOR GND
13 VTR DD ON
14 CAM DD ON
15 STBY ON
16 EJECT
17 NC
18 SS GND
19 EVF 5V
20 SS GND
21 SS 5V
22 VIDEO GND
23 VIDEO 5V
24 VIDEO GND
25 DIG 5V(1)
26 CAM UNREG
27 DIG 5V(2)
28 CAM UNREG GND
29 CAM5V
30 DIG GND
31 CAM15V
32 CAM GND
33 CAM -8V
34 CAM GND
FROM/TO
SYSCON SERVO
CN502

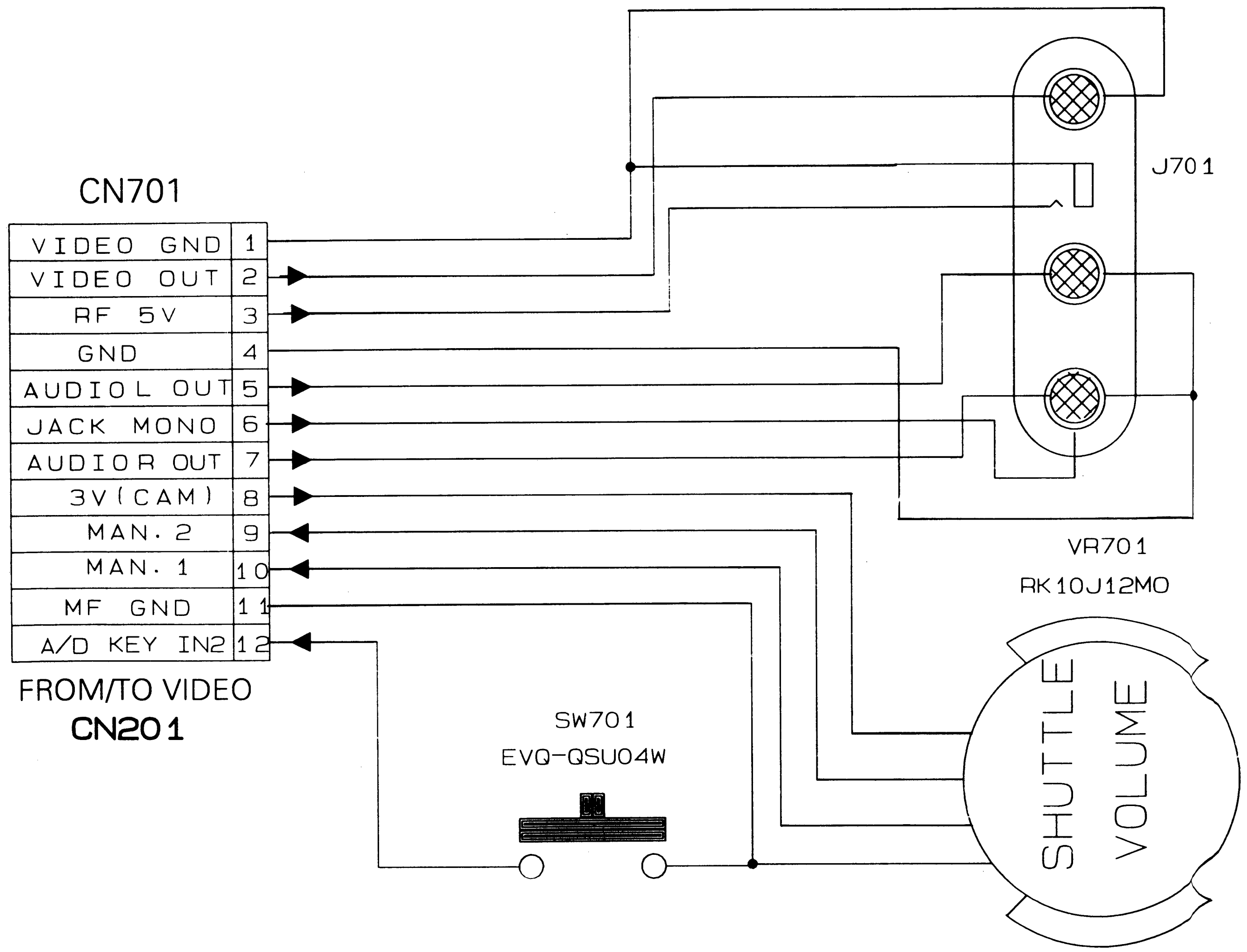
11-3 Function


EDIT+
SW457
EVQ-PLD
EDIT-
SW458
EVQ-PLD
PLAY
(FADE)
SW452
EVQ-PLD
REW
(BLC)
SW455
EVQ-PLD
FF
(DATE)
SW456
EVQ-PLD
STOP
(DSE)
SW454
EVQ-PLD
P/S
(TITLE)
SW453
EVQ-PLD
R450
0
R451
18K
R452
33K
R454
33K
R453
68K
R455
1K
CN451
A/D KEY IN 0 1
EVER 5V 2
A/D KEY IN 2 3
N.C 4
REW 5
FF 6
CAM PWR SW 7
VTR PWR SW 8
SERIAL 9
TALLY LED 10
SS GND 11
SS GND 12
H- SYNC 13
EVF OUT 14
EVF 5V 15
EVF 5V 16
FROM/TO
S/SERVO CN501
R457
270K
R462
33KF
R463
33KF
R458 1K
R459 1K
SW451
P. AE SWITCH
R461
18KF
R460
0
BA450(A, B, C)
C450
104
R456
0
R464
68KF
R465
0
(3216)
VTR CAM
SW450
POWER SWITCH
CN452
5V 1
GND 2
TALLY LED 3
VIDEO 4
HD 5
FROM/TO
CVF CNE01
CN453
2 UNREG (B+)
1 GND
TO DC/DC CN902

11-4 Light

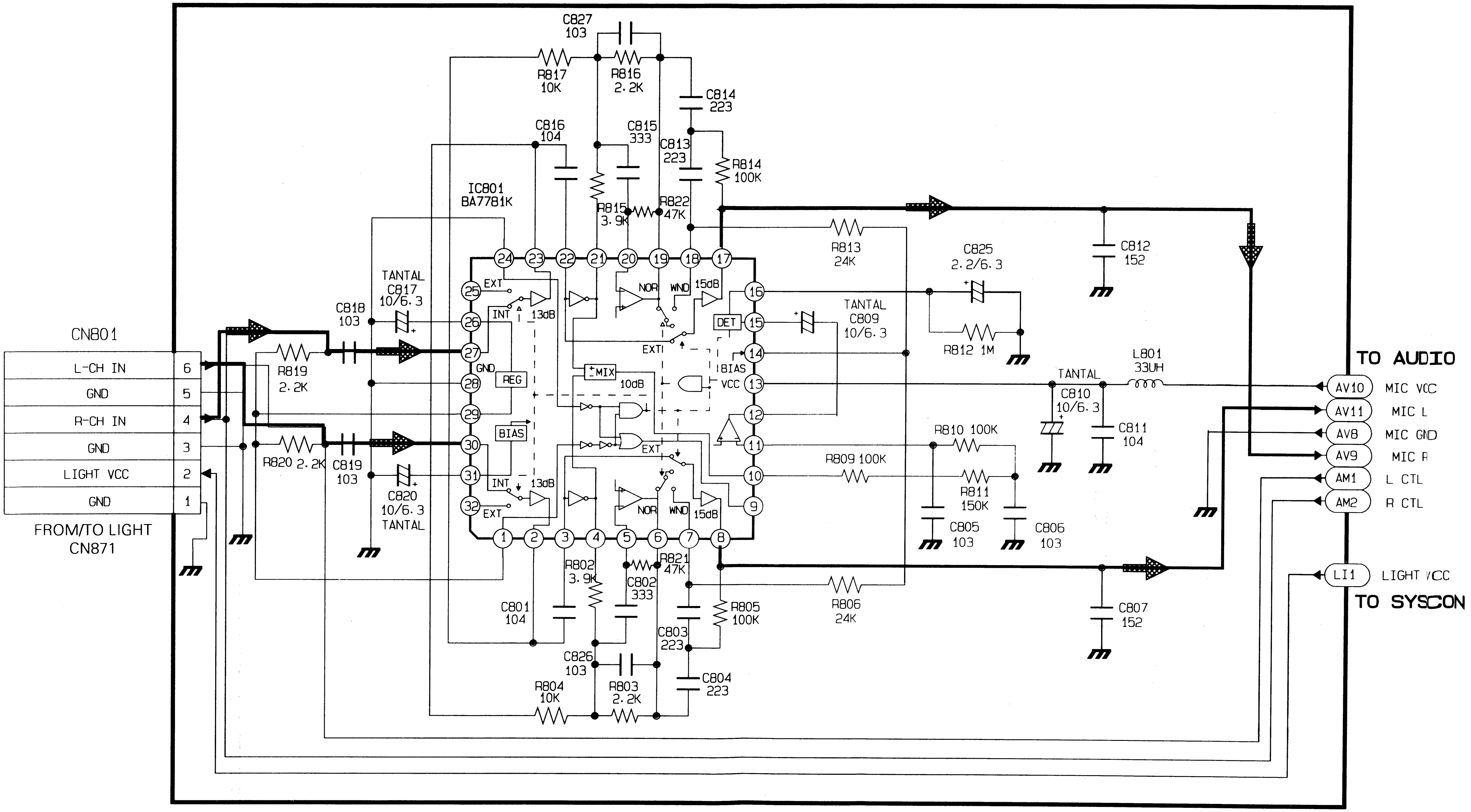

J871
MIC(L)
MIC(R)
1
2
3
4
CN871
L-CH IN 6
GND 5
R-CH IN 4
GND 3
LIGHT VCC 2
GND 1
FROM/TO
MIC CN801
1 LIGHT VCC
2 GND
CN872

11-5 A/V Jack


CN701
VIDEO GND 1
VIDEO OUT 2
RF 5V 3
GND 4
AUDIO L OUT 5
JACK MONO 6
AUDIO R OUT 7
3V(CAM) 8
MAN. 2 9
MAN. 1 10
MF GND 11
A/D KEY IN2 12
FROM/TO VIDEO
CN201
J701
VR701
RK10J12MO
SW701
EVQ-QSU04W
SHUTTLE
VOLUME

11-6 Mic

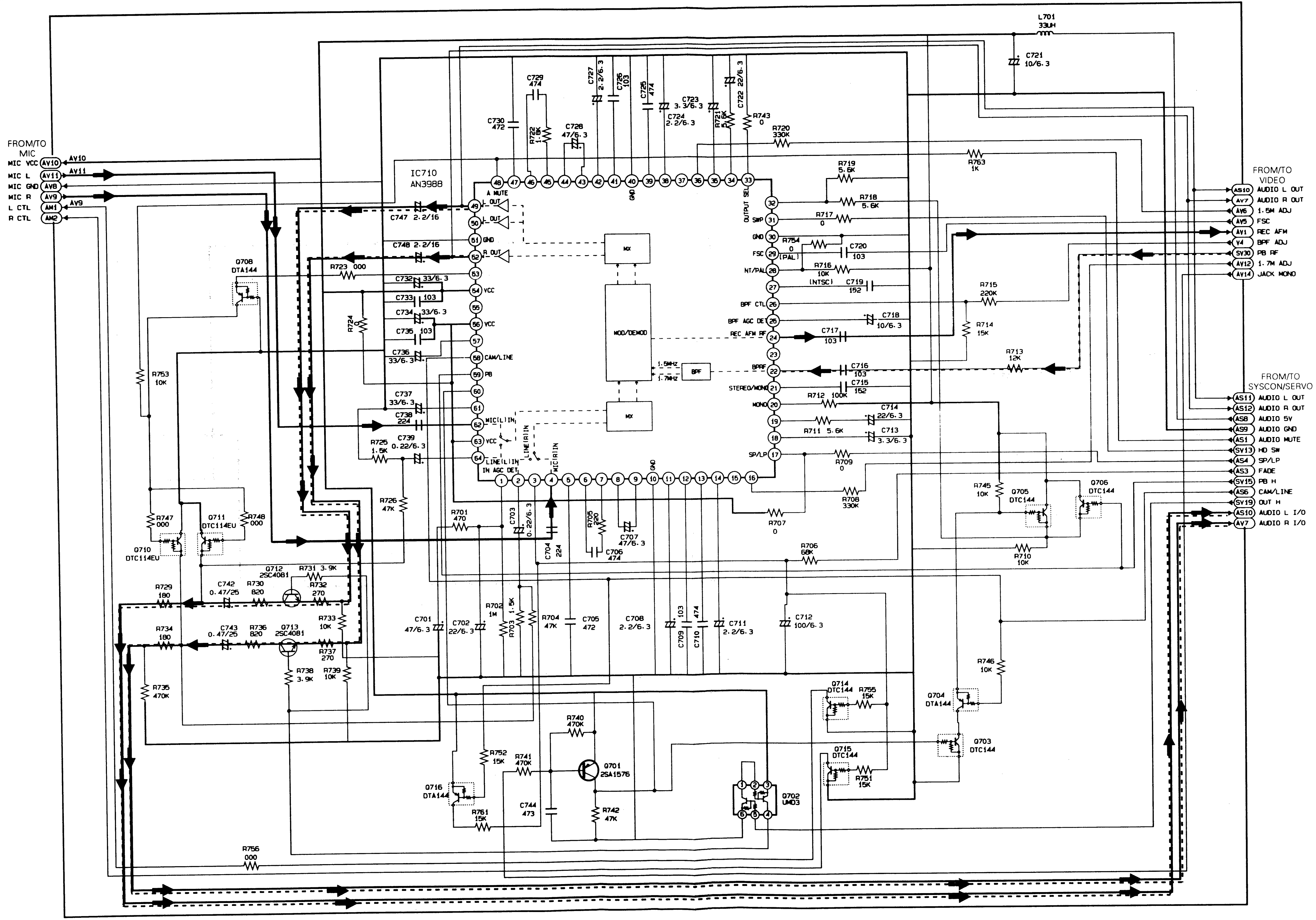
RED ——— REC PROCESS



CN801
L-CH IN
GND
R-CH IN
GND
LIGHT VCC
GND
6
5
4
3
2
1
FROM/TO LIGHT
CN871
IC801
BA7781K
C827
103
R817
10K
R816
2.2K
C814
223
C816
104
C815
333
C813
223
R814
100K
R815
3.9K
R822
47K
TANTAL
C817
10/6.3
C818
103
R819
2.2K
R820 2.2K
C819
103
C820
10/6.3
TANTAL
EXT
INT
13dB
NOR
WND
15dB
DET
EXT
MIX
10dB
GND
REG
BIAS
VCC
R813
24K
C825
2.2/6.3
C812
152
TANTAL
C809
10/6.3
R812 1M
L801
33UH
TANTAL
C810
10/6.3
C811
104
R810 100K
R809 100K
R811
150K
C805
103
C806
103
R802
3.9K
R821
47K
C802
333
C801
104
C803
223
R805
100K
R806
24K
C807
152
C826
103
C804
223
R804
10K
R803
2.2K
TO AUDIO
AV10
MIC VCC
AV11
MIC L
AV8
MIC GND
AV9
MIC R
AM1
L CTL
AM2
R CTL
LI1
LIGHT VCC
TO SYSCON

11-7 Audio

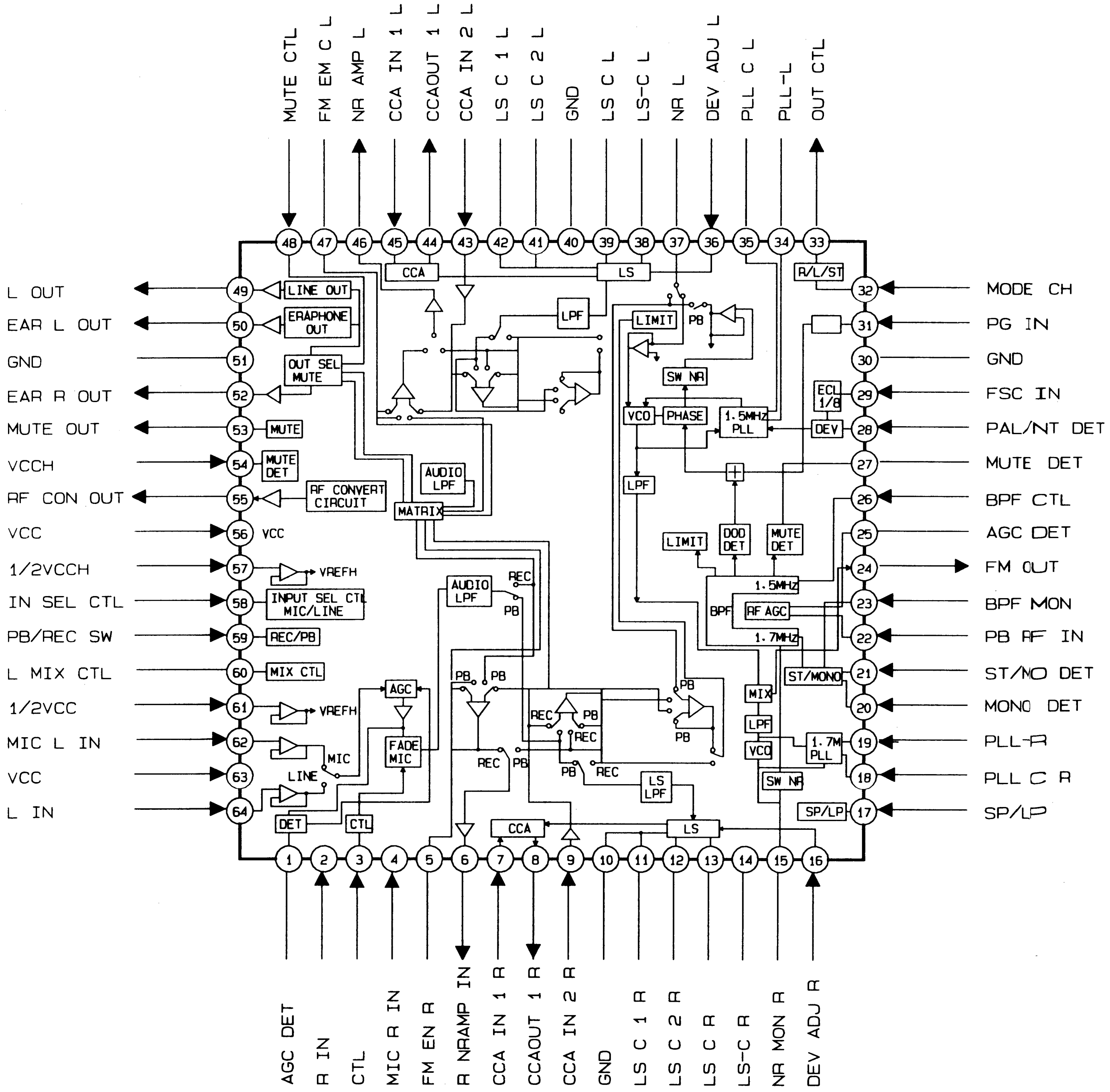
RED ———— REC PROCESS BLUE ———— PB PROCESS


FROM/TO MIC
MIC VCC AV10
MIC L AV11
MIC GND AV8
MIC R AV9
L CTL AM1
R CTL AM2
IC710
AN3988
A MUTE
L OUT
GND
R OUT
VCC
CAM/LINE
PB
MIC(L)IN
LINE(L)IN
LINE(R)IN
MIC(R)IN
IN AGC DET
MX
MOD/DEMOD
BPF
1.5MHz
1.7MHz
OUTPUT SEL
SWP
FSC
NT/PAL
BPF CTL
BPF AGC DET
REC AFM RF
BPRF
STEREO/MONO
MONO
SP/LP
(PAL)
(NTSC)
L701 33UH
C721 10/6.3
FROM/TO VIDEO
AS10 AUDIO L OUT
AV7 AUDIO R OUT
AV6 1.5M ADJ
AV5 FSC
AV1 REC AFM
V4 BPF ADJ
SV30 PB RF
AV12 1.7M ADJ
AV14 JACK MONO
FROM/TO SYSCON/SERVO
AS11 AUDIO L OUT
AS12 AUDIO R OUT
AS8 AUDIO 5V
AS9 AUDIO GND
AS1 AUDIO MUTE
SV13 HD SW
AS4 SP/LP
AS3 FADE
SV15 PB H
AS6 CAM/LINE
SV19 OUT H
AS10 AUDIO L I/O
AV7 AUDIO R I/O
Q708 DTA144
Q710 DTC114EU
Q711 DTC114EU
Q712 2SC4081
Q713 2SC4081
Q716 DTA144
Q701 2SA1576
Q702 UMD3
Q714 DTC144
Q715 DTC144
Q704 DTA144
Q703 DTC144
Q705 DTC144
Q706 DTC144
C747 2.2/16
C748 2.2/16
C729 474
C730 472
C727 2.2/6.3
C726 103
C725 474
C723 3.3/6.3
C724 2.2/6.3
C722 22/6.3
C728 47/6.3
C732 33/6.3
C733 103
C734 33/6.3
C735 103
C736 33/6.3
C737 33/6.3
C738 224
C739 0.22/6.3
C720 103
C719 152
C718 10/6.3
C717 103
C716 103
C715 152
C714 22/6.3
C713 3.3/6.3
C703 0.22/6.3
C704 224
C706 474
C707 47/6.3
C701 47/6.3
C702 22/6.3
C705 472
C708 2.2/6.3
C709 103
C710 474
C711 2.2/6.3
C712 100/6.3
C742 0.47/25
C743 0.47/25
C744 473
R722 1.8K
R721 5.6K
R743 0
R720 330K
R763 1K
R719 5.6K
R718 5.6K
R717 0
R754 0
R716 10K
R715 220K
R714 15K
R713 12K
R712 100K
R711 5.6K
R709 0
R708 330K
R707 0
R706 68K
R723 000
R724
R725 1.5K
R726 47K
R753 10K
R747 000
R748 000
R729 180
R730 820
R731 3.9K
R732 270
R733 10K
R734 180
R736 820
R737 270
R738 3.9K
R739 10K
R735 470K
R701 470
R705 220
R702 1M
R703 1.5K
R704 47K
R740 470K
R741 470K
R742 47K
R752 15K
R761 15K
R756 000
R745 10K
R746 10K
R710 10K
R755 15K
R751 15K

IC 710 (AN3988)

PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	0.0V	2.4V	2.4V
3	-	-	-
4	2.2V	2.4V	2.4V
5	2.3V	2.4V	2.4V
6	2.1V	2.4V	2.4V
7	2.3V	2.4V	2.4V
8	2.3V	2.4V	2.4V
9	2.3V	2.4V	2.4V
10	0.0V	0.0V	0.0V
11	2.0V	2.4V	2.4V
12	2.0V	2.4V	2.4V
13	0.4V	0.6V	0.6V
14	0.4V	0.6V	0.6V
15	2.0V	2.4V	2.4V
16	1.1V	1.1V	1.1V
17	4.9V	4.9V	4.9V
18	2.3V	2.4V	2.4V
19	2.6V	2.6V	2.7V
20	4.3V	0.0V	4.6V
21	3.1V	4.2V	4.3V
22	2.2V	0.6V	0.6V
23	1.8V	0.1V	0.1V
24	3.0V	3.0V	3.0V
25	2.4V	4.0V	4.0V
26	1.3V	0.2V	0.2V
27	3.8V	4.2V	4.3V
28	4.2V	4.4V	4.6V
29	0.0V	4.0V	4.0V
30	0.0V	0.0V	0.0V
31	-	-	-
32	1.6V	1.7V	0.2V
33	0.0V	0.0V	0.0V
34	2.4V	2.7V	2.7V
35	2.3V	2.4V	2.4V
36	1.0V	2.1V	2.1V
37	2.3V	2.4V	2.4V
38	0.6V	0.6V	0.6V
39	0.6V	0.6V	0.6V
40	0.0V	0.0V	0.0V
41	2.3V	2.4V	2.4V
42	2.3V	2.4V	2.4V
43	2.3V	2.4V	2.4V
44	2.3V	2.4V	2.4V
45	2.3V	2.4V	2.4V
46	2.3V	2.4V	2.4V
47	2.3V	2.4V	2.4V
48	0.0V	0.0V	0.0V
49	2.3V	2.4V	2.4V
50	2.3V	2.4V	2.4V
51	0.0V	0.0V	0.0V
52	2.3V	2.4V	2.4V
53	0.0V	0.0V	0.0V
54	4.7V	4.9V	4.9V
55	2.3V	2.4V	2.4V
56	4.7V	4.9V	4.9V
57	2.3V	2.4V	2.4V
58	0.0V	4.9V	0.0V
59	4.7V	0.1V	0.1V
60	4.7V	4.9V	4.9V
61	2.3V	2.4V	2.4V
62	-	2.4V	2.4V
63	4.7V	4.9V	4.9V
64	0.1V	2.4V	2.4V

IC710 AN3988


MUTE CTL L
FM EM C L
NR AMP L
CCA IN 1 L
CCAOUT 1 L
CCA IN 2 L
LS C 1 L
LS C 2 L
GND
LS C L
LS-C L
NR L
DEV ADJ L
PLL C L
PLL-L
OUT CTL
L OUT
EAR L OUT
GND
EAR R OUT
MUTE OUT
VCCH
RF CON OUT
VCC
1/2VCCH
IN SEL CTL
PB/REC SW
L MIX CTL
1/2VCC
MIC L IN
VCC
L IN
MODE CH
PG IN
GND
FSC IN
PAL/NT DET
MUTE DET
BPF CTL
AGC DET
FM OUT
BPF MON
PB RF IN
ST/NO DET
MONO DET
PLL-R
PLL C R
SP/LP
AGC DET
R IN
CTL
MIC R IN
FM EN R
R NRAMP IN
CCA IN 1 R
CCAOUT 1 R
CCA IN 2 R
GND
LS C 1 R
LS C 2 R
LS C R
LS-C R
NR MON R
DEV ADJ R
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
MUTE
MUTE DET
RF CONVERT CIRCUIT
VCC
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
MIX CTL
VREFH
MIC
LINE
DET
CTL
AGC
FADE MIC
AUDIO LPF
MATRIX
CCA
LS
LPF
LIMIT
PB
SW NR
VCO
PHASE
1.5MHz PLL
ECL 1/8
DEV
R/L/ST
DOO DET
MUTE DET
1.5MHz
BPF
RF AGC
1.7MHz
ST/MONO
MIX
1.7M PLL
SP/LP
LS LPF
REC
PB

11-8 System Control/Servo

The schematic diagram of "System Control/Servo" is on page 11-23.

IC 601 (CXP87240A)			
PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	0.0V	0.0V	0.0V
3	0.0V	4.8V	0.0V
4	4.8V	4.8V	4.8V
5	4.8V	0.0V	0.0V
6	4.8V	0.0V	4.8V
7	2.4V	2.4V	2.4V
8	0.0V	4.8V	0.0V
9	4.8V	4.8V	4.8V
10	4.8V	4.8V	0.0V
11	4.8V	4.8V	0.0V
12	0.0V	0.0V	0.0V
13	4.8V	4.8V	4.8V
14	0.0V	0.0V	0.0V
15	0.0V	4.8V	4.8V
16	4.8V	0.0V	4.8V
17	0.0V	0.0V	0.0V
18	4.0V	4.0V	4.0V
19	4.0V	4.0V	4.0V
20	4.9V	4.9V	4.9V
21	4.0V	4.0V	4.0V
22	0.0V	0.0V	0.0V
23	0.0V	0.0V	0.0V
24	4.8V	4.8V	4.8V
25	4.8V	4.8V	4.8V
26	0.0V	0.0V	0.0V
27	4.8V	0.0V	0.0V
28	0.0V	0.0V	0.0V
29	4.8V	4.8V	0.4V
30	4.8V	4.8V	4.8V
31	4.8V	2.5V	2.5V
32	4.8V	2.5V	2.5V
33	4.9V	4.9V	4.9V
34	0.0V	0.0V	0.0V
35	0.0V	0.0V	0.0V
36	4.9V	4.9V	4.9V
37	2.4V	2.4V	0.0V
38	2.4V	2.4V	2.4V
39	0.0V	0.0V	0.0V
40	4.7V	4.7V	4.7V
41	0.0V	0.0V	0.0V
42	2.4V	2.4V	2.4V
43	1.8V	1.8V	1.8V
44	0.0V	4.8V	4.8V
45	0.0V	0.0V	0.0V
46	0.0V	4.8V	4.8V
47	4.8V	4.8V	4.8V
48	4.8V	4.8V	4.8V
49	4.8V	4.8V	4.8V
50	4.8V	4.8V	4.8V
51	4.8V	4.8V	4.8V
52	0.0V	0.0V	0.0V
53	4.8V	4.8V	4.8V
54	4.8V	0.0V	4.8V
55	4.4V	4.4V	4.4V
56	0.0V	4.8V	0.0V
57	0.0V	0.0V	0.0V
58	0.0V	0.0V	0.0V
59	4.8V	4.8V	4.8V
60	2.9V	2.9V	2.9V
61	1.7V	1.7V	1.7V
62	2.5V	0.0V	2.5V
63	2.4V	0.0V	0.0V
64	2.4V	0.0V	0.0V
65	4.1V	4.1V	4.1V
66	2.4V	2.4V	2.4V
67	0.0V	4.8V	4.8V
68	0.9V	0.0V	0.0V
69	1.9V	0.0V	0.0V
70	2.4V	4.9V	4.9V
71	0.0V	0.0V	0.0V
72	0.0V	0.0V	0.0V
73	0.0V	0.0V	0.0V
74	0.0V	0.0V	0.0V
75	2.4V	4.9V	0.0V
76	2.4V	0.0V	0.0V
77	2.4V	4.9V	4.9V
78	2.4V	4.9V	4.9V
79	2.4V	0.0V	0.0V
80	2.4V	0.0V	0.0V
81	0.0V	0.0V	0.0V
82	4.5V	4.5V	4.5V
83	0.0V	0.0V	0.0V
84	0.0V	0.0V	0.0V
85	4.8V	4.8V	4.8V
86	0.4V	0.4V	0.4V
87	2.4V	2.4V	2.4V
88	0.0V	0.0V	0.0V
89	4.9V	4.9V	4.9V
90	4.9V	4.9V	4.9V
91	0.0V	0.0V	0.0V
92	0.0V	0.0V	0.0V
93	4.9V	0.0V	4.9V
94	4.9V	0.0V	4.9V
95	4.7V	4.9V	0.0V
96	2.4V	0.0V	0.0V
97	2.4V	0.0V	0.0V
98	2.4V	0.0V	0.0V
99	4.7V	0.0V	0.0V
100	4.7V	0.0V	0.0V

IC 501 (KA8322)			
PIN NO	PLAY BACK	RECORD	STOP
1	1.7V	1.7V	0.0V
2	4.6V	0.0V	2.2V
3	2.4V	2.4V	2.4V
4	2.4V	2.4V	2.4V
5	0.0V	0.0V	0.0V
6	0.0V	0.0V	0.0V
7	1.3V	1.3V	0.0V
8	1.3V	1.3V	0.0V
9	1.3V	1.3V	0.0V
10	2.4V	2.4V	2.4V
11	2.4V	2.4V	2.4V
12	2.4V	2.4V	2.4V
13	0.0V	0.0V	0.0V
14	2.9V	2.9V	0.0V
15	3.1V	2.5V	2.5V
16	2.4V	2.4V	2.4V
17	2.4V	2.4V	2.4V
18	4.7V	0.7V	4.7V
19	4.7V	0.7V	4.7V
20	0.0V	0.0V	4.7V
21	0.0V	0.0V	0.0V
22	2.6V	2.6V	2.6V
23	0.0V	0.7V	4.8V
24	-	-	-
25	-	-	-
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	0.0V	0.0V	0.0V
32	0.0V	0.0V	0.0V
33	0.0V	0.0V	0.0V
34	2.4V	2.4V	2.4V
35	2.4V	2.4V	2.4V
36	2.1V	2.5V	0.0V
37	2.3V	2.3V	0.0V
38	4.9V	4.9V	4.9V
39	0.0V	0.0V	0.0V
40	0.0V	0.0V	0.0V
41	0.0V	0.0V	0.0V
42	0.0V	0.0V	0.0V
43	0.0V	0.0V	0.0V
44	0.0V	0.0V	0.0V
45	4.4V	4.4V	4.4V
46	0.6V	0.6V	0.6V
47	0.0V	0.0V	1.7V
48	2.3V	0.0V	2.4V
49	3.1V	2.5V	2.4V
50	2.4V	3.3V	2.4V
51	2.5V	2.5V	2.5V
52	2.5V	2.5V	2.5V
53	4.6V	4.6V	0.0V
54	2.4V	2.4V	2.4V
55	2.4V	2.4V	2.4V
56	2.4V	2.4V	2.4V
57	2.4V	0.0V	0.0V
58	2.4V	0.0V	0.0V
59	2.2V	0.0V	1.5V
60	2.4V	2.4V	2.4V
61	4.9V	4.9V	4.9V
62	3.5V	3.5V	3.5V
63	2.4V	2.4V	2.4V
64	3.1V	2.5V	2.5V

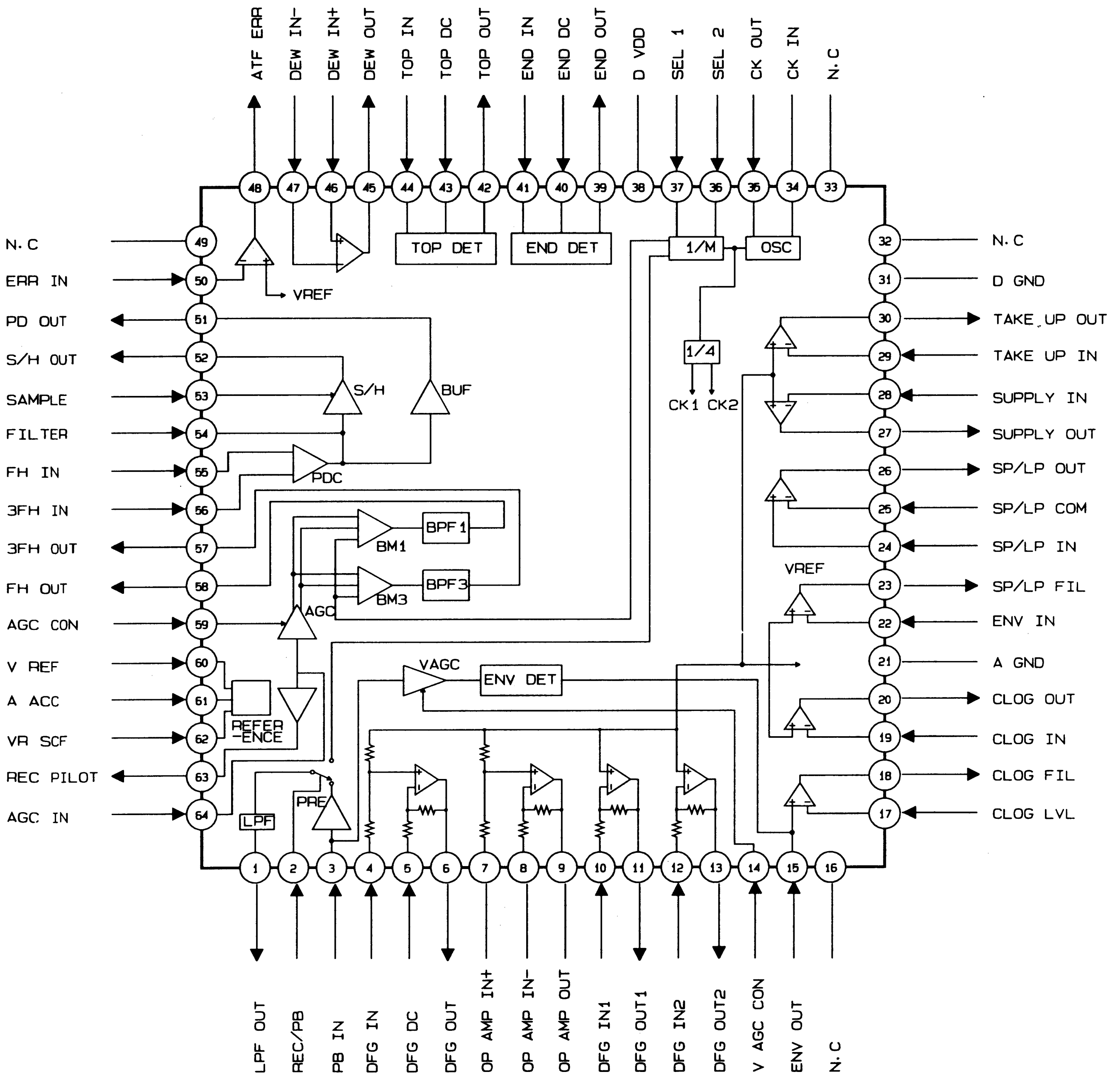
IC 502 (TPIC1327DF)			
PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	0.0V	0.0V	0.0V
3	0.0V	0.0V	0.0V
4	0.0V	0.0V	0.0V
5	0.0V	0.0V	0.0V
6	1.3V	1.3V	0.0V
7	4.6V	4.6V	0.0V
8	6.7V	6.7V	0.0V
9	6.7V	6.7V	0.0V
10	0.0V	0.0V	0.0V
11	0.0V	0.0V	0.0V
12	7.5V	7.5V	7.5V
13	1.4V	1.4V	0.0V
14	0.7V	0.7V	0.0V
15	0.0V	0.0V	0.0V
16	0.7V	0.7V	0.0V
17	0.0V	0.0V	0.0V
18	0.7V	0.7V	0.0V
19	0.7V	1.5V	0.0V
20	0.7V	0.7V	0.0V
21	0.7V	0.7V	0.0V
22	0.7V	0.7V	0.0V
23	0.7V	0.7V	0.0V
24	3.6V	3.6V	2.4V
25	0.6V	1.7V	2.4V
26	3.6V	3.6V	2.4V
27	0.6V	0.6V	0.6V
28	0.6V	0.6V	0.6V
29	0.6V	0.6V	0.0V
30	7.5V	7.5V	7.5V

IC 503 (LB1851M)			
PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	0.0V	0.0V	0.0V
3	0.9V	0.9V	0.0V
4	1.9V	1.9V	0.0V
5	7.5V	7.5V	7.5V
6	4.9V	4.9V	4.9V
7	4.6V	4.6V	0.0V
8	0.7V	0.7V	0.0V
9	0.7V	0.7V	0.0V
10	2.4V	2.4V	0.0V
11			
12	2.4V	2.4V	0.0V
13	2.4V	2.4V	4.8V
14	0.0V	0.0V	0.0V
15	0.0V	0.0V	0.0V
16	0.0V	0.0V	0.0V
17	0.0V	0.0V	0.0V
18	4.6V	4.6V	0.0V
19	0.6V	0.6V	0.0V
20	1.5V	1.5V	1.5V
21	1.5V	1.5V	1.5V
22	1.9V	1.9V	1.9V
23	1.9V	1.9V	1.9V
24	2.3V	2.3V	2.3V
25	2.3V	2.3V	2.3V
26	0.0V	0.0V	0.0V
27	0.9V	0.9V	0.0V
28	0.9V	0.9V	0.0V
29	0.0V	0.0V	0.0V
30	0.0V	0.0V	0.0V

IC 504 (BA6285FS)			
PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	0.0V	0.0V	0.0V
3	0.0V	0.0V	0.0V
4	7.6V	7.6V	7.6V
5	7.6V	7.6V	7.6V
6	0.0V	0.0V	0.0V
7	0.0V	0.0V	0.0V
8	0.0V	0.0V	0.0V
9	0.0V	0.0V	0.0V
10	0.0V	0.0V	0.0V
11	0.0V	0.0V	0.0V
12	4.9V	4.9V	4.9V
13	0.0V	0.0V	0.0V
14	0.5V	0.5V	0.5V
15	0.0V	0.0V	0.0V
16	0.0V	0.0V	0.0V

IC 602 (S8420BF)			
PIN NO	PLAY BACK	RECORD	STOP
1	5.0V	5.0V	5.0V
2	0.0V	0.0V	0.0V
3	5.0V	5.0V	5.0V
4	3.0V	3.0V	3.0V
5	5.0V	5.0V	5.0V
6	0.0V	0.0V	0.0V
7	5.0V	5.0V	5.0V
8	7.0V	7.0V	7.0V

IC501 KA8322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CK IN
N.C
N.C
ERR IN
PD OUT
S/H OUT
SAMPLE
FILTER
FH IN
3FH IN
3FH OUT
FH OUT
AGC CON
V REF
A ACC
VR SCF
REC PILOT
AGC IN
N.C
D GND
TAKE UP OUT
TAKE UP IN
SUPPLY IN
SUPPLY OUT
SP/LP OUT
SP/LP COM
SP/LP IN
SP/LP FIL
ENV IN
A GND
CLOG OUT
CLOG IN
CLOG FIL
CLOG LVL
LPF OUT
REC/PB
PB IN
DFG IN
DFG DC
DFG OUT
OP AMP IN+
OP AMP IN-
OP AMP OUT
DFG IN1
DFG OUT1
DFG IN2
DFG OUT2
V AGC CON
ENV OUT
N.C
TOP DET
END DET
1/M
OSC
1/4
CK1 CK2
VREF
S/H
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PDC
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BM1
BPF3
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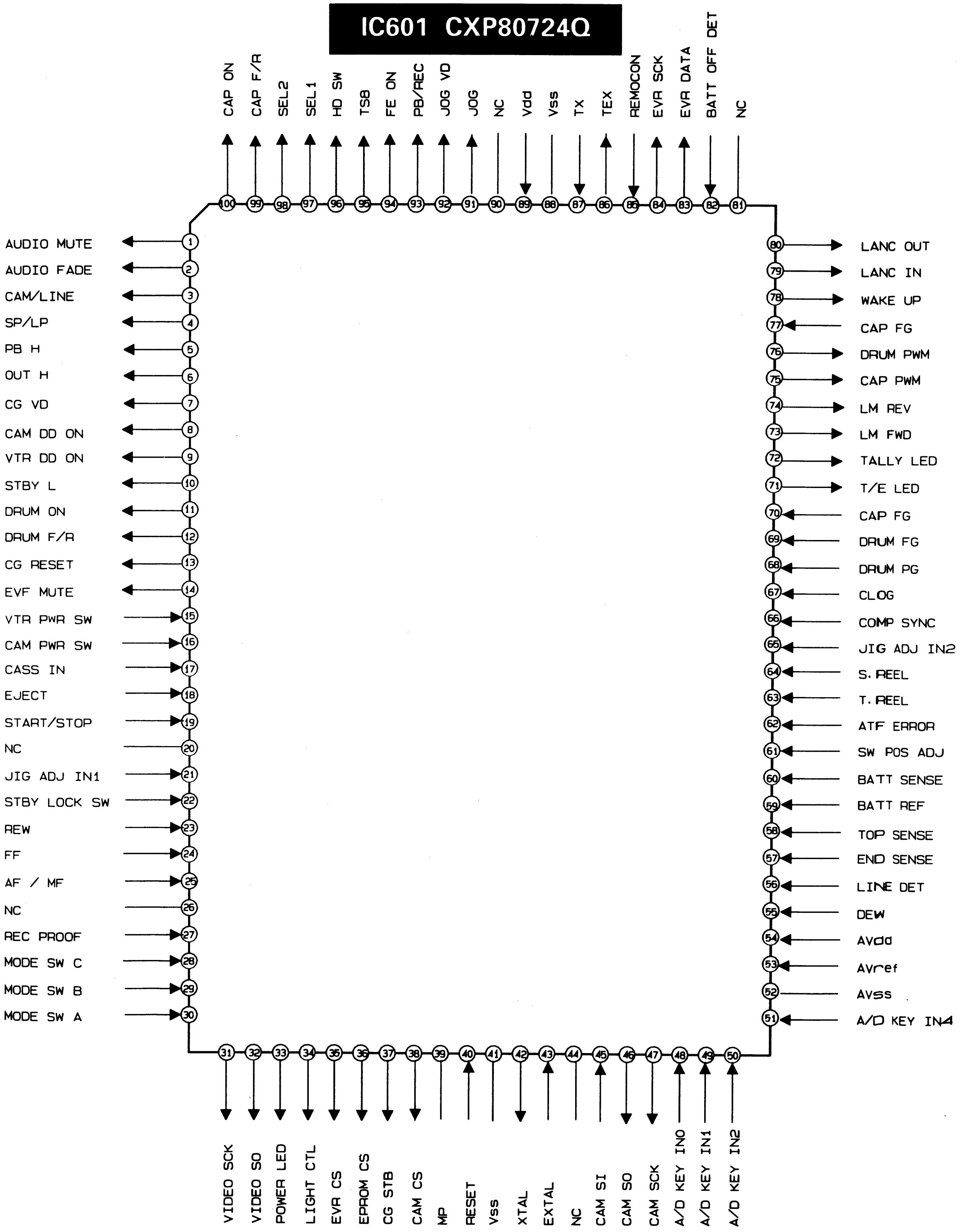
AGC
VAGC
ENV DET
REFER-ENCE
PRE
LPF

IC601 CXP80724Q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REMOCON
EVR SCK
EVR DATA
BATT OFF DET
NC
AUDIO MUTE
AUDIO FADE
CAM/LINE
SP/LP
PB H
OUT H
CG VD
CAM DD ON
VTR DD ON
STBY L
DRUM ON
DRUM F/R
CG RESET
EVF MUTE
VTR PWR SW
CAM PWR SW
CASS IN
EJECT
START/STOP
NC
JIG ADJ IN1
STBY LOCK SW
REW
FF
AF / MF
NC
REC PROOF
MODE SW C
MODE SW B
MODE SW A
LANC OUT
LANC IN
WAKE UP
CAP FG
DRUM PWM
CAP PWM
LM REV
LM FWD
TALLY LED
T/E LED
CAP FG
DRUM FG
DRUM PG
CLOG
COMP SYNC
JIG ADJ IN2
S. REEL
T. REEL
ATF ERROR
SW POS ADJ
BATT SENSE
BATT REF
TOP SENSE
END SENSE
LINE DET
DEW
AVdd
AVref
AVss
A/D KEY IN4
VIDEO SCK
VIDEO SO
POWER LED
LIGHT CTL
EVR CS
EPROM CS
CG STB
CAM CS
MP
RESET
Vss
XTAL
EXTAL
NC
CAM SI
CAM SO
CAM SCK
A/D KEY IN0
A/D KEY IN1
A/D KEY IN2

11-9 Video

The schematic diagram of "Video" is on page 11-24.

IC 101 (CXA1202R)

PIN NO	PLAY BACK	RECORD	STOP
1	4.5V	4.5V	1.3V
2	0.0V	3.1V	1.0V
3	4.1V	4.1V	1.0V
4	0.0V	4.1V	1.0V
5	2.5V	2.5V	0.4V
6	0.0V	3.1V	1.0V
7	4.6V	4.6V	1.2V
8	1.7V	2.1V	0.8V
9	3.9V	4.5V	1.2V
10	2.4V	2.4V	0.6V
11	0.0V	0.0V	0.0V
12	2.4V	2.4V	0.4V
13	0.0V	0.0V	0.0V
14	2.4V	2.4V	0.4V
15	2.5V	1.3V	0.4V
16	2.4V	2.4V	0.4V
17	4.6V	4.6V	0.0V
18	2.4V	4.5V	0.7V
19	0.0V	0.0V	0.0V
20	1.7V	3.8V	1.0V
21	0.0V	0.0V	0.0V
22	0.0V	0.0V	0.0V
23	3.4V	3.4V	0.8V
24	2.5V	2.5V	0.7V
25	1.7V	1.7V	0.7V
26	2.4V	0.0V	0.0V
27	4.8V	4.8V	1.2V
28	4.8V	4.8V	1.2V
29	2.1V	2.1V	0.0V
30	2.1V	3.1V	0.7V
31	2.1V	2.1V	0.7V
32	2.1V	2.1V	0.0V
33	4.8V	4.8V	1.2V
34	4.8V	4.8V	1.2V
35	2.4V	0.0V	0.0V
36	1.7V	1.7V	0.7V
37	2.5V	2.5V	0.7V
38	3.4V	3.4V	0.7V
39	1.2V	1.2V	0.0V
40	0.0V	0.0V	0.0V
41	0.0V	0.0V	0.0V
42	1.1V	1.1V	0.8V
43	0.0V	0.0V	0.0V
44	0.0V	0.0V	0.0V
45	4.6V	0.0V	2.1V
46	2.5V	2.5V	0.4V
47	4.8V	4.8V	2.1V
48	0.5V	3.1V	1.0V

IC 201 (AN2491)

PIN NO	PLAY BACK	RECORD	STOP
1	2.7V	2.7V	2.7V
2	1.8V	2.0V	1.3V
3	2.6V	2.6V	2.6V
4	1.9V	1.9V	1.9V
5	2.6V	2.6V	2.0V
6	2.6V	2.6V	2.0V
7	2.3V	2.3V	0.0V
8	4.8V	4.8V	4.8V
9	2.5V	2.5V	2.9V
10	2.4V	2.4V	2.4V
11	0.0V	0.0V	0.0V
12	2.4V	2.4V	2.4V
13	2.0V	2.0V	2.0V
14	3.6V	3.6V	3.0V
15	2.9V	2.0V	0.0V
16	2.5V	2.2V	2.2V
17	2.6V	2.6V	2.6V
18	2.6V	2.6V	2.9V
19	2.6V	2.6V	2.9V
20	2.2V	2.3V	2.6V
21	0.0V	3.2V	2.6V
22	2.3V	2.3V	2.3V
23	2.4V	2.4V	2.4V
24	3.7V	2.2V	2.2V
25	2.2V	2.2V	2.0V
26	3.7V	2.2V	2.2V
27	3.0V	3.0V	3.0V
28	3.1V	3.1V	3.1V
29	2.7V	2.7V	2.7V
30	2.9V	2.9V	2.9V
31	3.4V	3.4V	2.0V
32	2.2V	2.2V	2.0V
33	2.8V	2.8V	2.8V
34	1.9V	1.9V	1.9V
35	2.7V	2.7V	3.0V
36	2.2V	2.3V	2.1V
37	3.3V	3.3V	3.9V
38	2.9V	2.9V	2.7V
39	2.6V	2.6V	2.6V
40	3.3V	3.3V	3.3V
41	2.0V	2.0V	2.0V
42	0.0V	0.0V	0.0V
43	2.1V	0.0V	1.6V
44	4.9V	4.9V	4.9V
45	1.5V	0.0V	1.3V
46	0.0V	0.0V	0.0V
47	2.4V	2.4V	4.3V
48	0.0V	0.0V	0.0V
49	3.3V	3.3V	3.0V
50	2.2V	2.4V	2.6V
51	2.2V	2.2V	2.2V
52	2.6V	2.6V	2.6V
53	1.6V	3.5V	3.5V
54	2.6V	2.6V	2.6V
55	2.2V	2.2V	2.2V
56	2.8V	2.8V	2.8V
57	3.2V	3.2V	3.2V
58	2.5V	2.5V	2.5V
59	2.4V	2.4V	2.4V
60	1.2V	1.2V	0.0V
61	3.4V	4.8V	4.8V
62	3.3V	3.3V	3.3V
63	4.9V	4.9V	4.9V
64	3.2V	3.2V	3.2V

IC 402 (MB88346B)

PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	3.3V	3.5V	3.5V
3	2.2V	2.3V	2.3V
4	2.8V	2.8V	2.8V
5	2.4V	2.4V	2.4V
6	2.3V	2.3V	2.3V
7	2.5V	2.5V	0.0V
8	1.7V	1.7V	1.7V
9	0.9V	0.9V	0.9V
10	4.9V	4.9V	4.9V
11	4.9V	4.9V	4.9V
12	2.0V	2.0V	2.0V
13	3.5V	3.5V	3.5V
14	0.0V	0.0V	0.0V
15	0.0V	0.0V	0.0V
16	0.6V	0.6V	0.6V
17	0.6V	0.6V	0.6V
18	3.0V	3.0V	3.0V
19	1.9V	2.2V	0.0V
20	0.0V	0.0V	0.0V

IC 401 (BU5997AFS)

PIN NO	PLAY BACK	RECORD	STOP
1	4.9V	4.9V	4.9V
2	4.5V	4.5V	4.5V
3	0.0V	0.0V	0.0V
4	4.0V	1.6V	1.6V
5	4.9V	4.9V	4.9V
6	4.9V	4.9V	4.9V
7	0.0V	0.0V	0.0V
8	4.9V	4.9V	0.0V
9	4.9V	4.9V	4.9V
10	0.0V	0.0V	0.0V
11	0.0V	0.0V	0.0V
12	0.0V	0.0V	0.0V
13	0.0V	0.0V	0.0V
14	0.0V	0.0V	0.0V
15	0.0V	0.0V	0.0V
16	0.0V	0.0V	0.0V
17	0.0V	0.0V	0.0V
18	4.4V	4.4V	4.4V
19	0.0V	0.0V	1.3V
20	4.4V	4.4V	4.4V

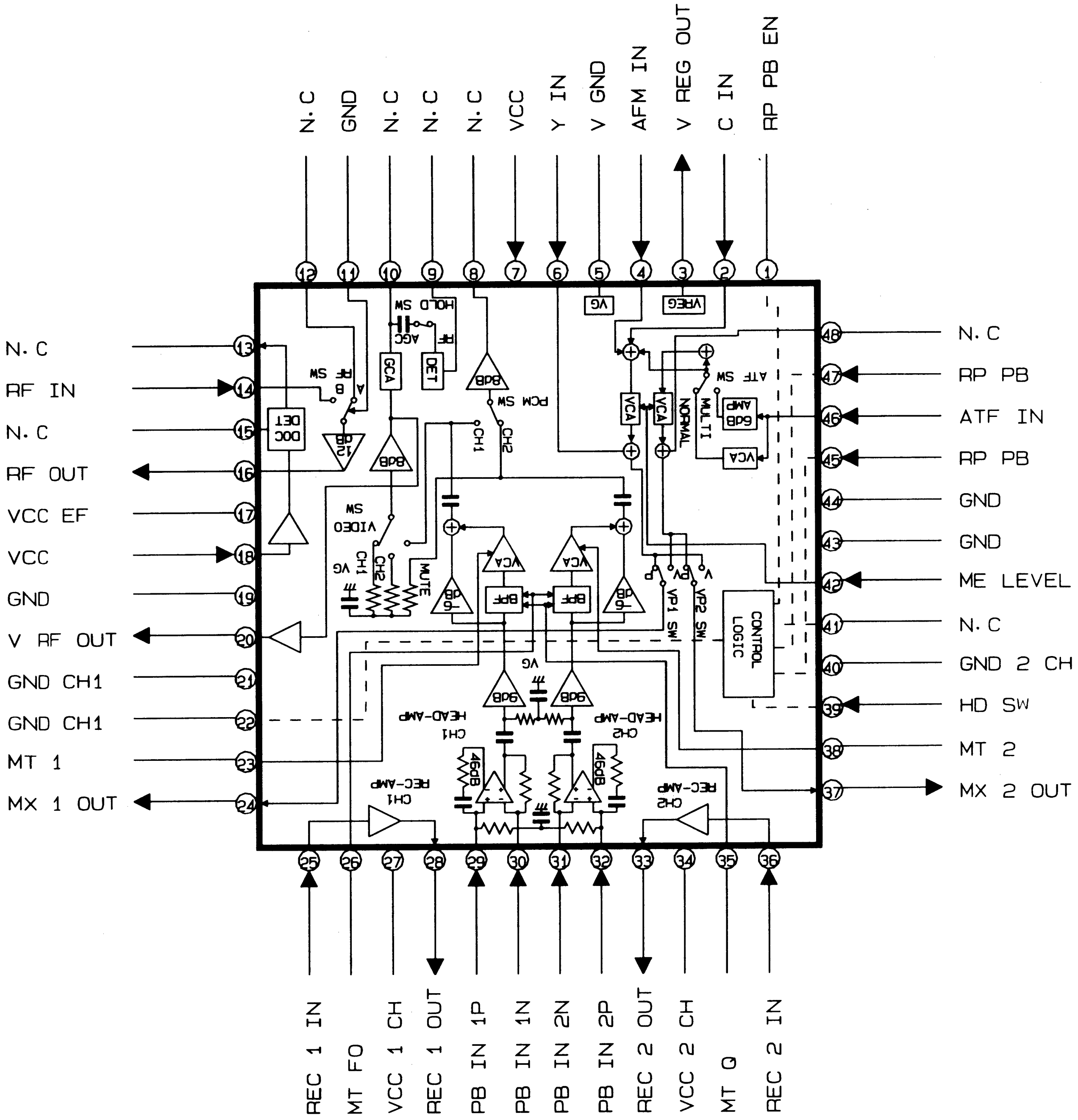
IC 302 (CXL1506N)

PIN NO	PLAY BACK	RECORD	STOP
1	0.0V	0.0V	0.0V
2	2.0V	2.0V	2.0V
3	2.4V	2.4V	2.4V
4	0.0V	0.0V	0.0V
5	2.0V	2.0V	2.0V
6	0.0V	0.0V	0.0V
7	2.4V	2.2V	2.2V
8	0.0V	0.0V	0.0V
9	0.0V	0.0V	0.0V
10	0.0V	0.0V	0.0V
11	4.9V	4.9V	4.9V
12	2.3V	2.3V	2.3V
13	4.9V	4.9V	4.9V
14	0.0V	0.0V	0.0V
15	1.9V	1.9V	1.9V
16	1.7V	1.7V	1.7V
17	4.9V	4.9V	4.9V
18	1.0V	1.0V	1.0V
19	0.0V	0.0V	0.0V
20	0.0V	0.0V	0.0V

IC 303 (M52358VP)

PIN NO	PLAY BACK	RECORD	STOP
1	5.0V	1.0V	0.8V
2	2.2V	1.5V	1.5V
3	0.0V	0.0V	0.0V
4	3.5V	0.0V	0.0V
5	0.0V	0.0V	0.0V
6	0.0V	0.0V	0.0V
7	2.2V	0.0V	0.0V
8	0.0V	0.0V	0.0V
9	2.0V	0.0V	0.0V
10	1.0V	0.0V	0.0V
11	0.0V	1.5V	1.5V
12	0.0V	0.0V	0.0V
13	4.2V	0.0V	0.0V
14	2.4V	0.0V	0.0V
15	2.4V	0.0V	0.0V
16	1.8V	0.0V	0.0V
17	4.6V	0.0V	0.0V
18	0.0V	0.0V	0.0V
19	5.0V	0.0V	0.6V
20	0.0V	0.0V	0.0V
21	1.6V	0.0V	0.0V
22	2.5V	0.0V	0.6V
23	5.0V	0.0V	0.6V
24	0.0V	0.0V	0.0V

IC101 CXA1202R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18 VCC
19 GND
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24 MX 1 OUT
25 REC 1 IN
26 MT FO
27 VCC 1 CH
28 REC 1 OUT
29 PB IN 1P
30 PB IN 1N
31 PB IN 2N
32 PB IN 2P
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35 MT Q
36 REC 2 IN
37 MX 2 OUT
38 MT 2
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43 GND
44 GND
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47 RP PB
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A
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GCA
AGC
HOLD SW
RF
DET
8dB
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CH1
CH2
VG
MUTE
6dB
VCA
BPF
VP1 SW
VP2 SW
CONTROL LOGIC
VREG
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REC-AMP CH1
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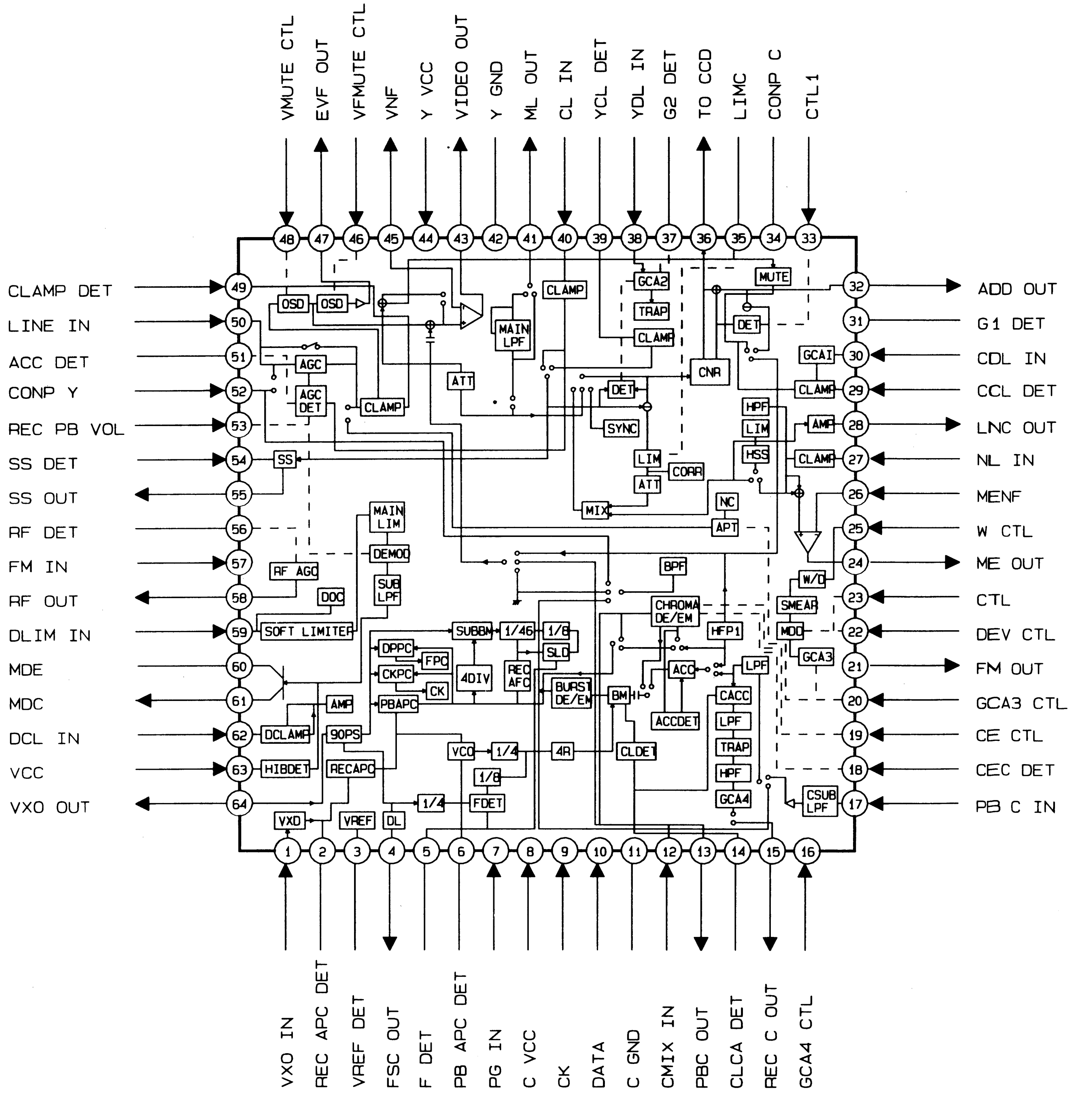
IC201 AN2491FHP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13 PBC OUT
14 CLCA DET
15 REC C OUT
16 GCA4 CTL
17 PB C IN
18 CEC DET
19 CE CTL
20 GCA3 CTL
21 FM OUT
22 DEV CTL
23 CTL
24 ME OUT
25 W CTL
26 MENF
27 NL IN
28 LNC OUT
29 CCL DET
30 CDL IN
31 G1 DET
32 ADD OUT
33 CTL1
34 CONP C
35 LIMC
36 TO CCD
37 G2 DET
38 YDL IN
39 YCL DET
40 CL IN
41 ML OUT
42 Y GND
43 VIDEO OUT
44 Y VCC
45 VNF
46 VFMUTE CTL
47 EVF OUT
48 VMUTE CTL
49 CLAMP DET
50 LINE IN
51 ACC DET
52 CONP Y
53 REC PB VOL
54 SS DET
55 SS OUT
56 RF DET
57 FM IN
58 RF OUT
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60 MDE
61 MDC
62 DCL IN
63 VCC
64 VXO OUT
OSD
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TRAP
CLAMP
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DEMOD
RF AGC
DOC
SUB LPF
BPF
SOFT LIMITER
SUBBN
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DPPC
FPC
CKPC
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4DIV
REC AFC
PBAPC
DCLAMP
90PS
HIBDET
RECAPC
VCO
1/4
4R
BURST DE/EM
BM
CHROMA DE/EM
HFP1
ACC
ACCDET
CLDET
LPF
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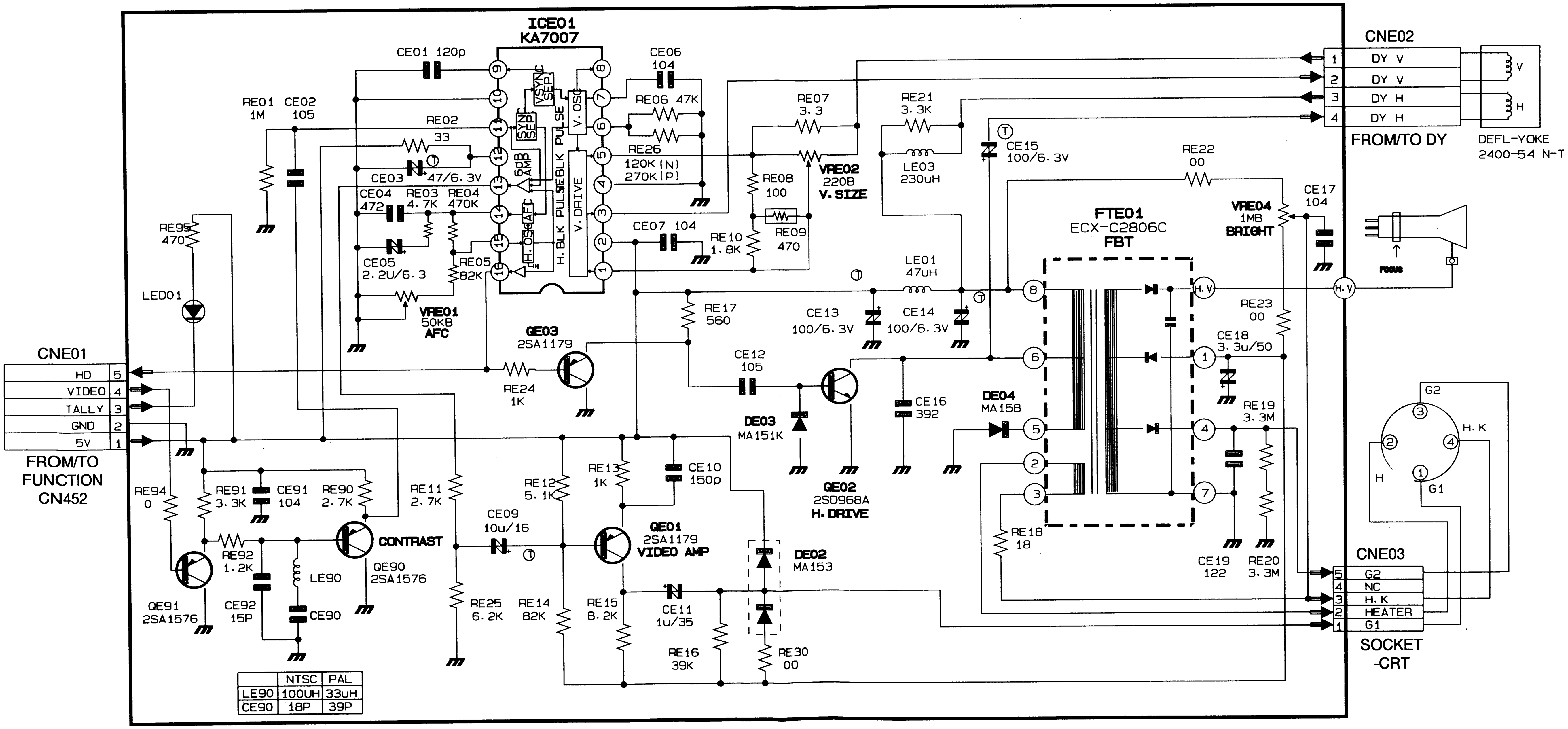
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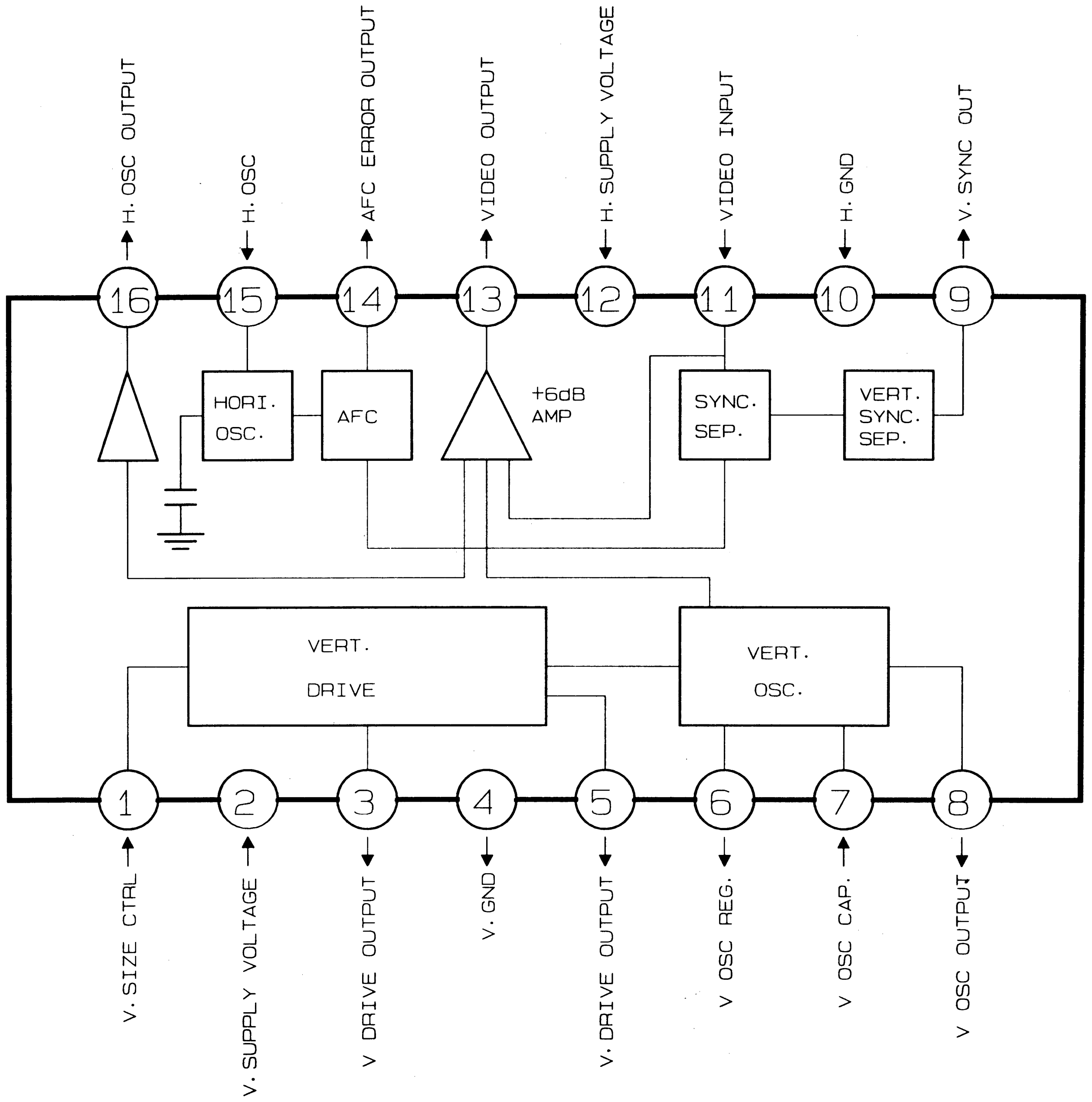
RE04 470K
CE05 2.2U/6.3
RE05 82K
VRE01 50KB AFC
V SYNC SEP
SYNC SEP
6dB AMP
AFC
H.OSC
H.BLK PULSE
BLK PULSE
V.OSC
V.DRIVE
RE26 120K(N) 270K(P)
CE07 104
RE10 1.8K
RE07 3.3
VRE02 220B V.SIZE
RE08 100
RE09 470
RE21 3.3K
LE03 230uH
CE15 100/6.3V
RE22 00
VRE04 1MB BRIGHT
CE17 104
LE01 47uH
CE13 100/6.3V
CE14 100/6.3V
RE17 560
FTE01
ECX-C2806C
FBT
H.V
RE23 00
CE18 3.3u/50
RE19 3.3M
CE19 122
RE20 3.3M
RE18 18
DE04 MA158
CE16 392
CE12 105
DE03 MA151K
QE02 2SD968A H.DRIVE
QE03 2SA1179
RE24 1K
RE95 470
LED01
RE94 0
RE91 3.3K
CE91 104
RE90 2.7K
RE92 1.2K
QE90 2SA1576
CONTRAST
LE90
CE90
QE91 2SA1576
CE92 15P
RE11 2.7K
CE09 10u/16
RE25 6.2K
RE14 82K
RE12 5.1K
RE13 1K
CE10 150p
QE01 2SA1179 VIDEO AMP
RE15 8.2K
CE11 1u/35
RE16 39K
DE02 MA153
RE30 00
CNE01
HD 5
VIDEO 4
TALLY 3
GND 2
5V 1
FROM/TO FUNCTION CN452
CNE02
1 DY V
2 DY V
3 DY H
4 DY H
FROM/TO DY
V
H
DEFL-YOKE 2400-54 N-T
FOCUS
G2
H.K
H
G1
CNE03
5 G2
4 NC
3 H.K
2 HEATER
1 G1
SOCKET -CRT

	NTSC	PAL
LE90	100UH	33uH
CE90	18P	39P

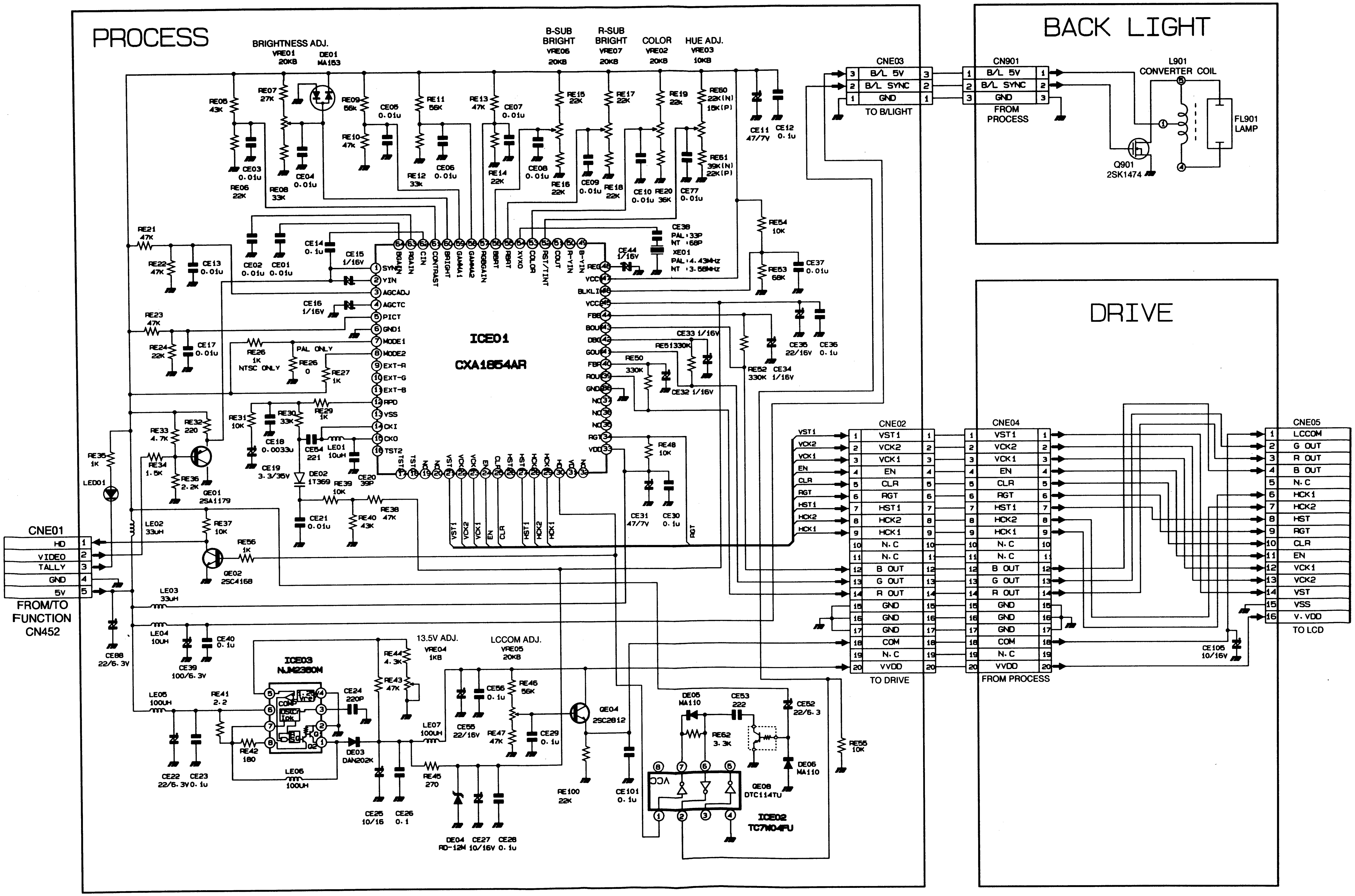
ICE01(KA7007)	
PIN NO	VOLTAGE(DC)
1	2.1
2	4.9
3	2.1
4	0.0
5	2.1
6	0.7
7	2.0
8	4.5
9	0.1
10	0.0
11	1.8
12	4.7
13	3.0
14	0.0
15	1.9
16	3.9

TR NO	E	B	C
QE01	3.1	3.7	-17.0
QE02	0.1	0.1	4.0
QE03	3.9	2.2	0.0
QE90	2.3	2.9	0.0
QE91	1.7	2.3	0.0

ICE01 KA7007


H. OSC OUTPUT
H. OSC
AFC ERROR OUTPUT
VIDEO OUTPUT
H. SUPPLY VOLTAGE
VIDEO INPUT
H. GND
V. SYNC OUT
16
15
14
13
12
11
10
9
HORI. OSC.
AFC
+6dB AMP
SYNC. SEP.
VERT. SYNC. SEP.
VERT. DRIVE
VERT. OSC.
1
2
3
4
5
6
7
8
V. SIZE CTRL
V. SUPPLY VOLTAGE
V DRIVE OUTPUT
V. GND
V. DRIVE OUTPUT
V OSC REG.
V OSC CAP.
V OSC OUTPUT

11-11 CVF (VP-K85)


PROCESS
BACK LIGHT
DRIVE
BRIGHTNESS ADJ.
VRE01 20KB
DE01 MA163
B-SUB BRIGHT VRE06 20KB
R-SUB BRIGHT VRE07 20KB
COLOR VRE02 20KB
HUE ADJ. VRE03 10KB
ICE01
CXA1854AR
SYNC
YIN
AGCADJ
AGCTC
PICT
GND1
MODE1
MODE2
EXT-R
EXT-G
EXT-B
RPD
VSS
CKI
CKO
TST2
BGAIN
RGAIN
CIN
CONTRAST
BRIGHT
GAMMA1
GAMMA2
RGBGAIN
BBRT
RBRT
XVXO
COLOR
RST/TINT
COUT
R-YIN
B-YIN
REG
VCC
BKLIM
FBB
BOUT
DBG
GOUT
FBR
ROUT
GND
NC
RGT
VDD
PAL ONLY
NTSC ONLY
XE01 PAL:4.43MHz NT:3.58MHz
CE38 PAL:33P NT:68P
CNE01
HD
VIDEO
TALLY
GND
5V
FROM/TO FUNCTION CN452
LED01
QE01 2SA1179
QE02 2SC4168
ICE03
NJM2360M
13.5V ADJ.
VRE04 1KB
LCCOM ADJ.
VRE05 20KB
QE04 2SC2812
DE03 DAN202K
DE04 RD-12M
ICE02
TC7W04FU
QE08 DTC114TU
DE05 MA110
DE06 MA110
CNE03
B/L 5V
B/L SYNC
GND
TO B/LIGHT
CN901
FROM PROCESS
L901 CONVERTER COIL
Q901 2SK1474
FL901 LAMP
CNE02
VST1
VCK2
VCK1
EN
CLR
RGT
HST1
HCK2
HCK1
N.C
B OUT
G OUT
R OUT
GND
COM
VVDD
TO DRIVE
CNE04
FROM PROCESS
CNE05
LCCOM
G OUT
R OUT
B OUT
N.C
HCK1
HCK2
HST
RGT
CLR
EN
VCK1
VCK2
VST
VSS
V.VDD
TO LCD
CE106 10/16V

ICE01(CXA1854)

PIN NO	VOLTAGE(DC)
1	3.3
2	3.0
3	2.3
4	2.7
5	1.7
6	0.0
7	4.1
8	0.0
9	0.0
10	0.0
11	0.0
12	2.3
13	0.0
14	2.4
15	2.2
16	0.0
17	0.0
18	0.0
19	4.9
20	0.0
21	0.0
22	2.4
23	2.4
24	4.9
25	0.2
26	0.0
27	0.0
28	2.3
29	2.3
30	0.4
31	0.0
32	0.0
33	4.9
34	4.9
35	4.6
36	4.6

ICE01(CXA1854)

PIN NO	VOLTAGE(DC)
37	4.6
38	0.0
39	5.9
40	5.8
41	5.9
42	5.8
43	5.9
44	5.8
45	11.7
46	4.8
47	4.9
48	4.0
49	3.3
50	3.4
51	2.2
52	3.0
53	3.0
54	3.4
55	2.4
56	2.3
57	1.6
58	1.9
59	2.1
60	2.6
61	1.7
62	0.0
63	2.1
64	2.6

ICE02 (NJM2360)

PIN NO	VOLTAGE(DC)
1	4.2
2	0.0
3	1.3
4	0.0
5	1.2
6	4.7
7	4.6
8	3.3

ICE03 (TC7W04)

PIN NO	VOLTAGE(DC)
1	0.0
2	0.4
3	0.4
4	0.0
5	4.3
6	4.3
7	4.8
8	4.8

TR NO	E	B	C
QE01	3.2	2.6	0.0
QE02	0.0	4.1	0.0

11-12 Camera Main

The schematic diagram of "Camera Main" is on page 11-25.

PIN NO	VOLTAGE(DC)
ICP01	KS7301
1	
2	2.0
3	2.3
4	
5	0.0
6	0.0
7	4.8
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	1.2
15	0.2
16	
17	0.1
18	0.1
19	4.0
20	4.0
21	0.0
22	4.0
23	2.7
24	2.1
25	0.8
26	4.8
27	4.8
28	4.8
29	0.2
30	0.2
31	4.6
32	4.6
33	4.8
34	0.0
35	2.4
36	2.4
37	4.8
38	4.8
39	4.8
40	4.8
41	0.0
42	
43	
44	0.0
45	0.0
46	0.0
47	0.0
48	4.8
49	4.8
50	
51	0.0
52	0.0
53	
54	4.8
55	0.0
56	4.8
57	0.0
58	0.0
59	0.0
60	0.0
61	0.0
62	0.0
63	0.0
64	0.0
65	0.0
66	
67	
68	0.0
69	
70	0.0
71	
72	
73	
74	
75	
76	
77	

PIN NO	VOLTAGE(DC)
78	
79	
80	
81	4.8
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	0.0
96	
97	
98	
99	
100	
101	
102	
103	
104	
105	
106	
107	
108	
109	2.7
110	2.4
111	
112	3.4
113	
114	2.5
115	1.2
116	2.0
117	0.2
118	3.5
119	0.0
120	0.0
121	0.1
122	0.1
123	0.0
124	2.0
125	1.7
126	1.8
127	1.8
128	1.7
129	1.7
130	1.7
131	4.8
132	3.1
133	
134	
135	
136	4.7
137	0.0
138	4.8
139	
140	
141	4.8
142	4.8
143	2.9
144	2.1
145	2.3
146	2.5
147	1.1
148	0.0
149	0.0
150	0.0
151	4.8
152	0.0
153	0.0
154	0.0
155	0.0

PIN NO	VOLTAGE(DC)
156	0.0
157	0.0
158	0.0
159	0.0
160	0.0
ICP03	KS7302
1	4.7
2	3.7
3	2.9
4	2.8
5	0.0
6	1.6
7	3.7
8	0.0
9	1.5
10	2.2
11	3.7
12	5.0
13	2.1
14	2.1
15	2.5
16	0.0
17	0.0
18	5.0
19	2.2
20	2.2
21	2.2
22	1.8
23	1.9
24	2.2
25	2.1
26	0.0
27	1.8
28	0.3
29	4.0
30	0.2
ICP04	KAD0228
1	0.0
2	0.0
3	2.1
4	2.1
5	2.2
6	2.5
7	1.1
8	0.0
9	0.0
10	0.0
11	5.0
12	0.1
13	5.0
14	5.0
15	5.0
16	2.7
17	2.7
18	5.0
19	0.7
20	0.0
21	0.0
22	0.6
23	0.6
24	0.0
ICP05	KDA0408
1	
2	0.0
3	3.9
4	0.0
5	4.4
6	0.0
7	3.9
8	0.0
9	
10	4.9
11	4.9
12	4.9
13	
14	0.0
15	0.0
16	0.0

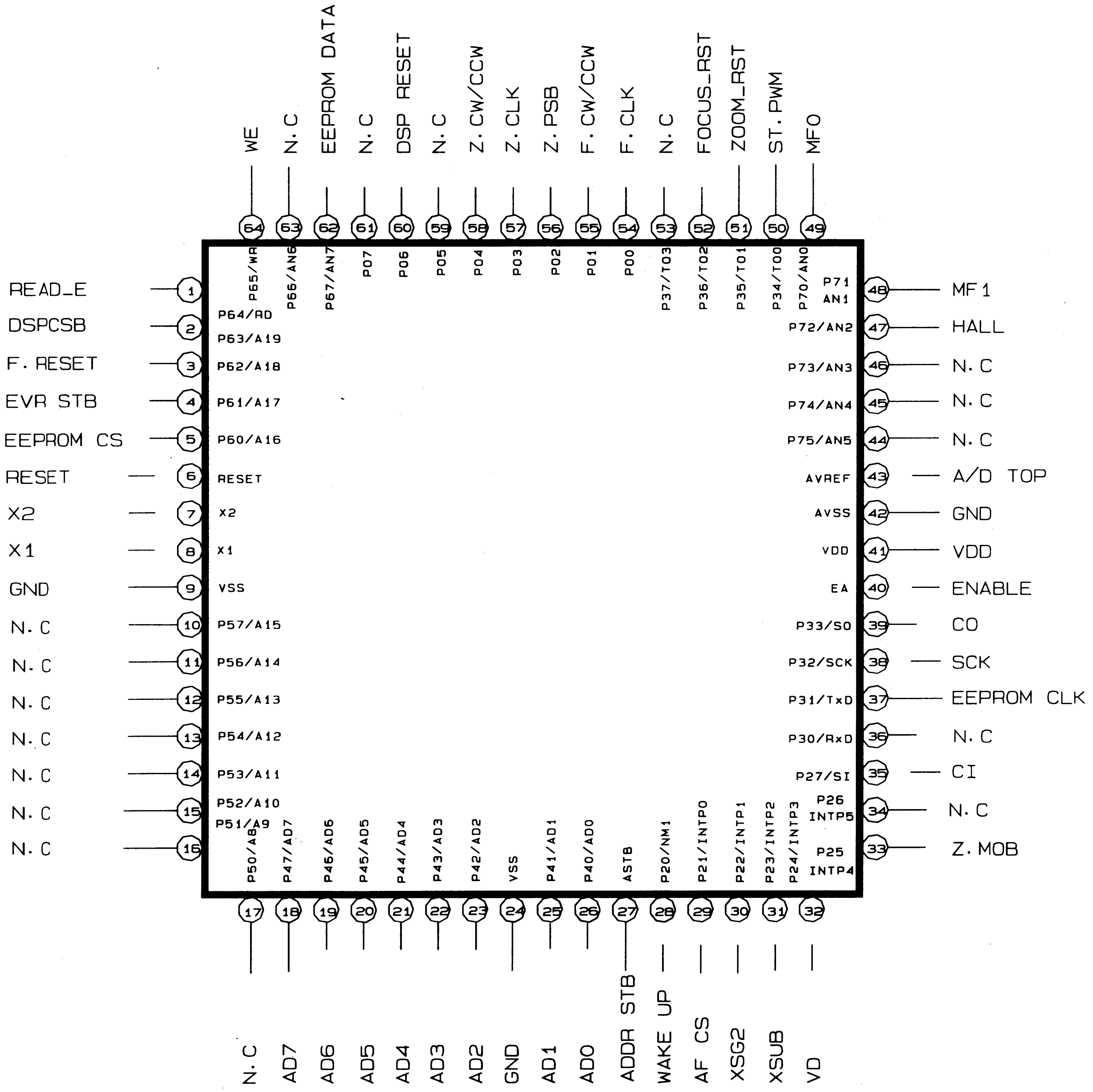
PIN NO	VOLTAGE(DC)
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.1
24	
25	0.0
26	0.0
27	2.3
28	1.7
29	1.7
30	1.7
31	3.2
32	1.3
33	1.3
34	1.3
35	1.3
36	1.3
37	
38	1.7
39	1.5
40	2.3
41	2.5
42	4.9
43	0.0
44	4.9
45	2.5
46	4.9
47	3.9
48	
ICA01	UPD78P218GC
1	5.0
2	0.0
3	0.0
4	0.0
5	5.0
6	5.0
7	2.2
8	2.4
9	0.0
10	
11	
12	
13	
14	
15	
16	
17	
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	5.0
29	4.4
30	4.7
31	4.5
32	4.6
33	0.0/5.0
34	
35	4.4
36	
37	0.0
38	4.9
39	4.9
40	5.0
41	5.0
42	0.0
43	2.9
44	
45	

PIN NO	VOLTAGE(DC)
46	
47	0.5/2.8
48	0.0/3.0
49	0.0/3.0
50	5.0
51	0.0/5.0
52	0.0/5.0
53	
54	0.0
55	0.0/5.0
56	0.0
57	0.0
58	0.0/5.0
59	
60	5.0
61	
62	4.8
63	
64	5.0
ICA02	X24C02
1	0.0
2	0.0
3	0.0
4	0.0
5	4.8
6	0.1
7	0.0
8	0.0
ICA03	MB88346
1	0.0
2	2.7
3	5.0
4	2.6
5	2.7
6	0.2
7	5.0
8	2.5
9	0.0
10	5.0
11	5.0
12	5.0
13	2.5
14	4.8
15	0.0
16	0.2
17	4.8
18	5.0
19	5.0
20	0.0
ICA04	NJM3403
1	2.7
2	1.5
3	1.5
4	5.0
5	2.0
6	3.0
7	3.0
8	
9	
10	
11	0.0
12	
13	
14	
ICA05	NJM3414
1	3.0
2	2.2
3	2.3
4	0.0
5	0.6
6	0.6
7	2.3
8	5.0

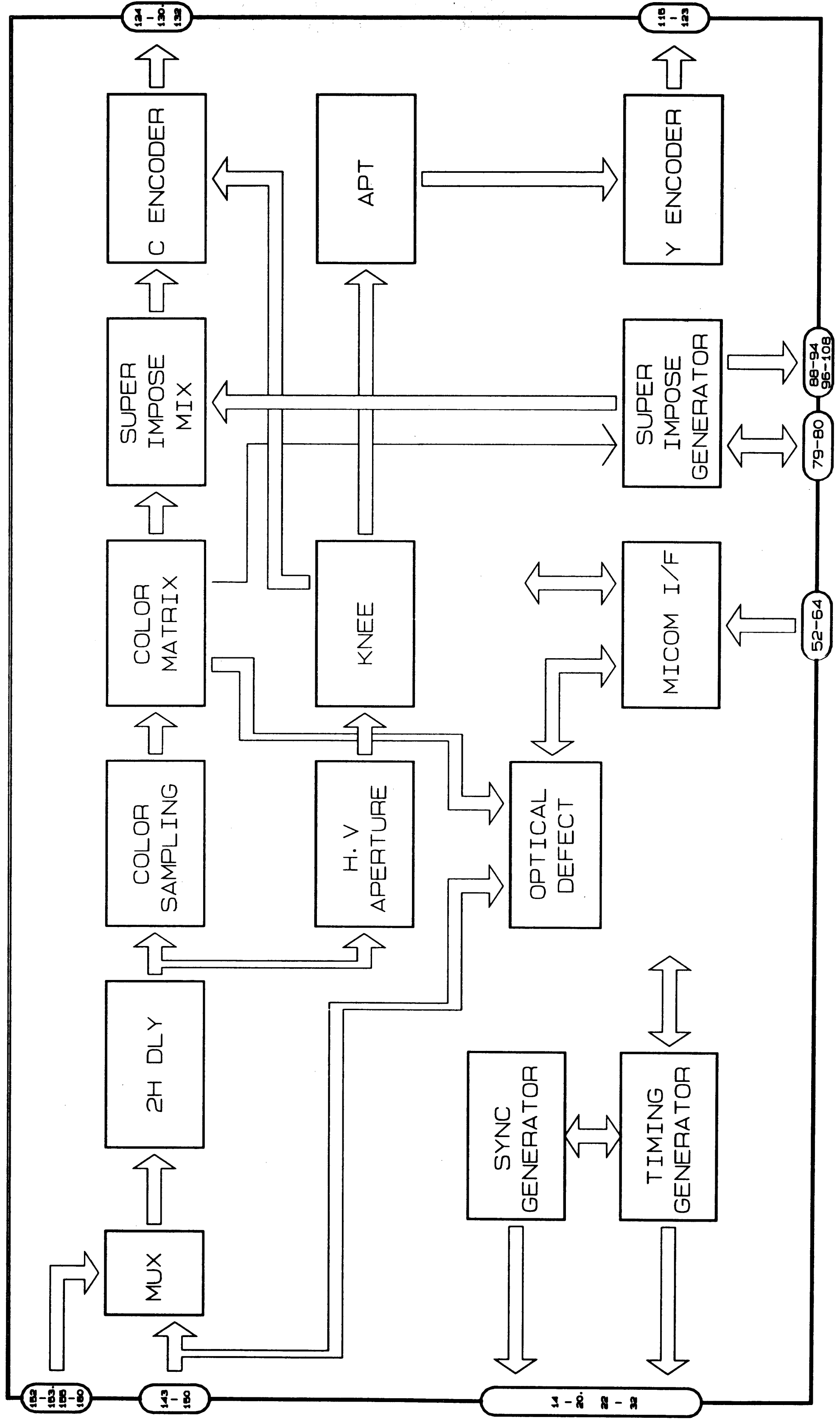
PIN NO	VOLTAGE(DC)
QP04	IMX1
1	5.0
2	0.1
3	1.4
4	1.2
5	1.9
6	1.3
QP05	IMZ1
1	5.0
2	0.6
3	1.2
4	0.0
5	1.4
6	0.7
QP104	2SC4081
E	1.5
B	2.2
C	5.0
QP105	2SA1576
E	2.5
B	1.8
C	0.0
QP06	2SC2812
E	4.2
B	4.8
C	5.0
QP07	2SC2812
E	2.3
B	2.8
C	3.7
QP08	2SC2812
E	3.1
B	3.7
C	5.0
QP09	2SC2812
E	3.5
B	4.1
C	5.0
QP10	2SC2812
E	3.5
B	4.1
C	4.9
QP11	2SC2812
E	3.8
B	4.4
C	5.0
QP12	2SC2812
E	2.6
B	3.3
C	5.0
QP13	2SC2812
E	1.9
B	2.5
C	3.9
QP14	2SC2812
E	3.2
B	3.9
C	5.0
QP17	2SC2812
E	2.1
B	0.1
C	2.0
QA01	DTC144EU
E	0.0
B	0.0
C	5.0
QA02	DTA144EU
E	5.0
B	5.0
C	0.0
QA03	DTC144EU
E	0.0
B	5.0
C	0.0
QA04	2SA1576
E	5.0
B	4.3
C	5.0/0.0

PIN NO	VOLTAGE(DC)
QA05	2SA1179
E	5.0
B	4.8
C	0.9
QA06	2SC4081
E	0.0
B	0.4
C	3.7
QA07	2SA1576
E	2.6
B	4.2
C	0.0
QA08	IMZ1
1	5.0
2	1.5
3	2.1
4	0.0
5	1.5
6	2.2
QA11	IMZ1
1	5.0
2	2.2
3	2.7
4	0.0
5	2.7
6	2.1
QA15	IMZ1
1	5.0
2	2.2
3	2.6
4	0.0
5	2.6
6	2.1

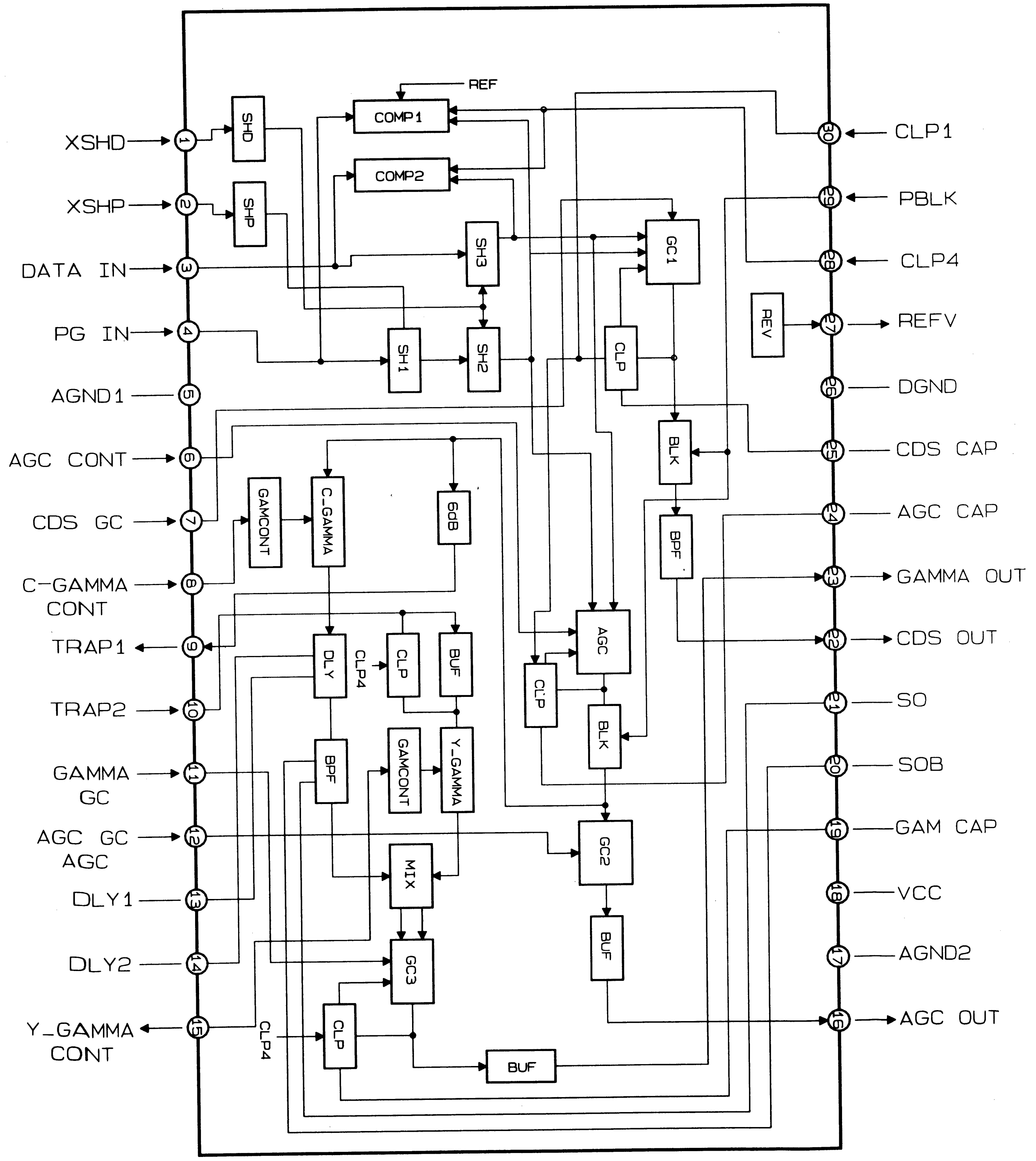
ICA01 uPD78214GC


READ_E
DSPCSB
F. RESET
EVR STB
EEPROM CS
RESET
X2
X1
GND
N. C
N. C
N. C
N. C
N. C
N. C
N. C
1 P64/RD
2 P63/A19
3 P62/A18
4 P61/A17
5 P60/A16
6 RESET
7 X2
8 X1
9 VSS
10 P57/A15
11 P56/A14
12 P55/A13
13 P54/A12
14 P53/A11
15 P52/A10
16 P51/A9
17 P50/A8
18 P47/AD7
19 P46/AD6
20 P45/AD5
21 P44/AD4
22 P43/AD3
23 P42/AD2
24 VSS
25 P41/AD1
26 P40/AD0
27 ASTB
28 P20/NMI
29 P21/INTP0
30 P22/INTP1
31 P23/INTP2
32 P24/INTP3
33 P25 INTP4
34 P26 INTP5
35 P27/SI
36 P30/RxD
37 P31/TxD
38 P32/SCK
39 P33/SO
40 EA
41 VDD
42 AVSS
43 AVREF
44 P75/AN5
45 P74/AN4
46 P73/AN3
47 P72/AN2
48 P71 AN1
49 P70/AN0
50 P34/T00
51 P35/T01
52 P36/T02
53 P37/T03
54 P00
55 P01
56 P02
57 P03
58 P04
59 P05
60 P06
61 P07
62 P67/AN7
63 P66/AN6
64 P65/WR
N.C
AD7
AD6
AD5
AD4
AD3
AD2
GND
AD1
AD0
ADDR STB
WAKE UP
AF CS
XSG2
XSUB
VD
MF1
HALL
N. C
N. C
N. C
A/D TOP
GND
VDD
ENABLE
CO
SCK
EEPROM CLK
N. C
CI
N. C
Z. MOB
WE
N. C
EEPROM DATA
N. C
DSP RESET
N. C
Z. CW/CCW
Z. CLK
Z. PSB
F. CW/CCW
F. CLK
N. C
FOCUS_RST
ZOOM_RST
ST. PWM
MFO

ICP01 KS7301


C ENCODER
APT
Y ENCODER
SUPER IMPOSE MIX
SUPER IMPOSE GENERATOR
COLOR MATRIX
KNEE
MICOM I/F
COLOR SAMPLING
H. V APERTURE
OPTICAL DEFECT
2H DLY
SYNC GENERATOR
TIMING GENERATOR
MUX
88-94 95-108
79-80
52-64
143-150

ICP03 KA7302


XSHD
XSHP
DATA IN
PG IN
AGND1
AGC CONT
CDS GC
C-GAMMA CONT
TRAP1
TRAP2
GAMMA GC
AGC GC AGC
DLY1
DLY2
Y_GAMMA CONT
CLP1
PBLK
CLP4
REFV
DGND
CDS CAP
AGC CAP
GAMMA OUT
CDS OUT
SO
SOB
GAM CAP
VCC
AGND2
AGC OUT
REF
SHD
SHP
COMP1
COMP2
SH3
SH1
SH2
GC1
CLP
REV
BLK
BPF
GAMCONT
C_GAMMA
6dB
DLY
CLP4
CLP
BUF
AGC
CLP
BLK
GC2
BUF
BPF
GAMCONT
Y_GAMMA
MIX
GC3
CLP
CLP4
BUF
1
2
3
4
5
6
7
8
9
10
11
12
13
14
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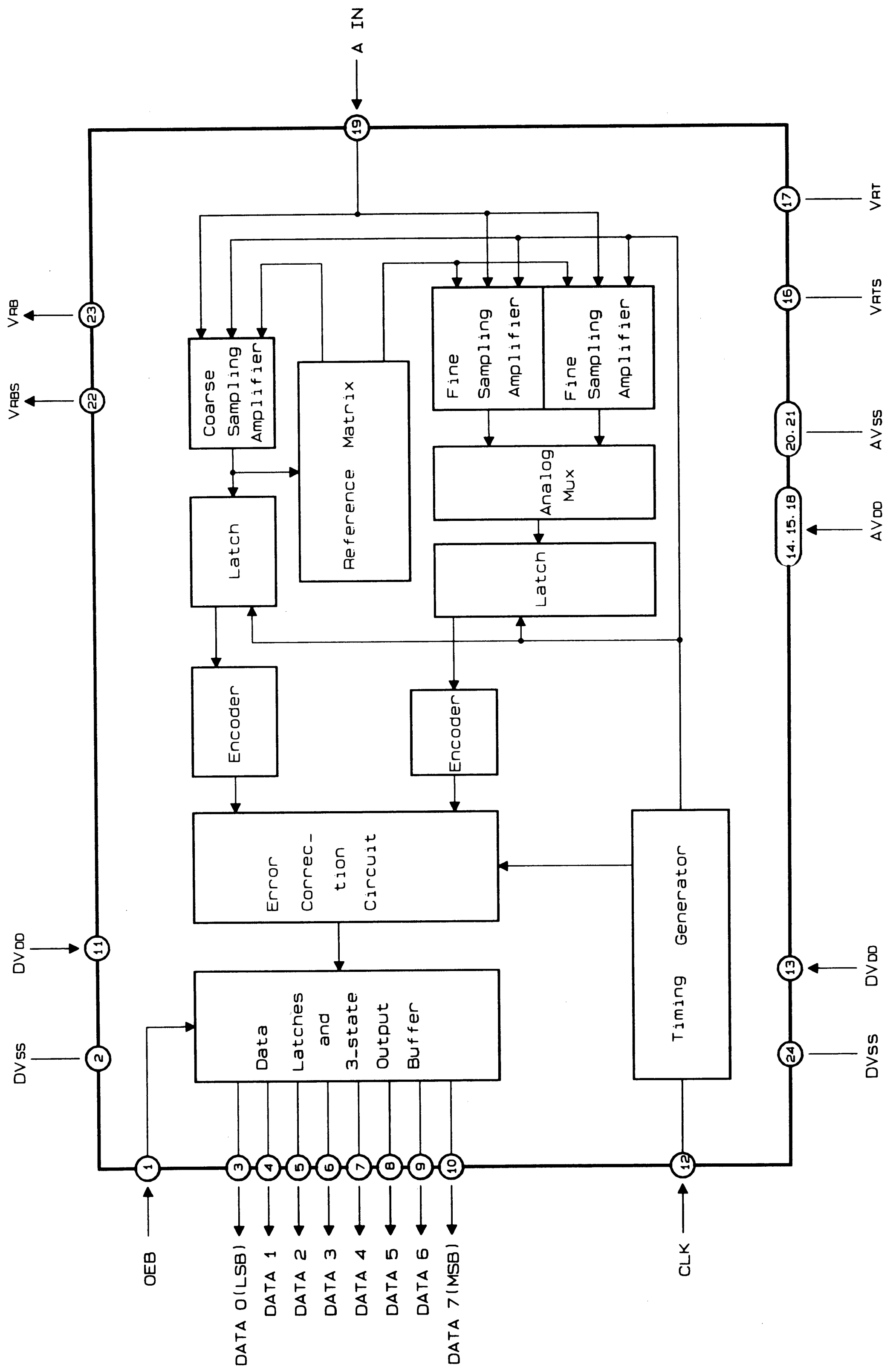
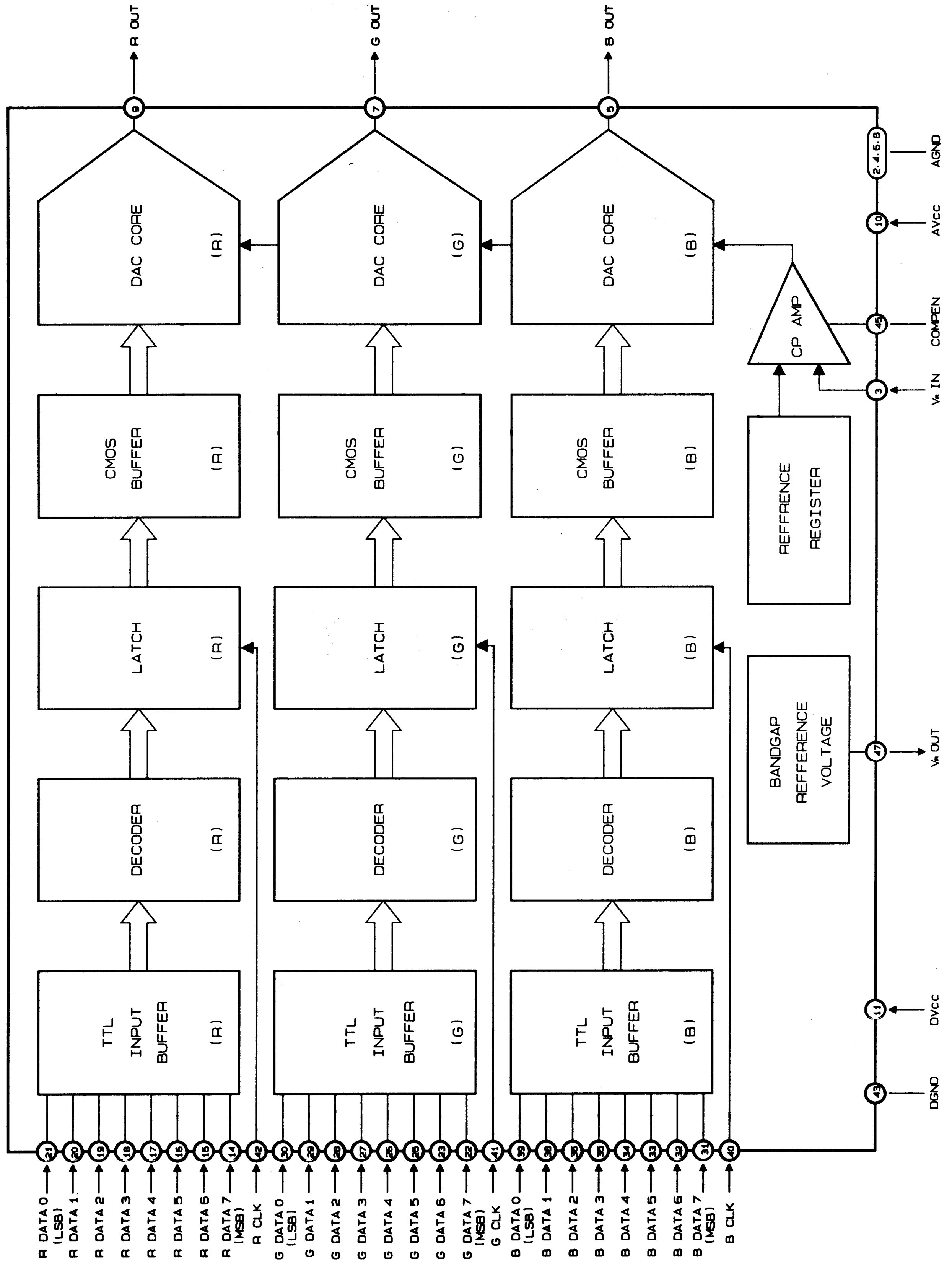
29
30

ICP04 KAD0228


A IN
19
VRT
17
VRTS
16
AVSS
20,21
AVDD
14,15,18
DVDD
13
DVSS
24
VRB
23
VRBS
22
DVDD
11
DVSS
2
Coarse Sampling Amplifier
Reference Matrix
Fine Sampling Amplifier
Fine Sampling Amplifier
Analog Mux
Latch
Latch
Encoder
Encoder
Error Correc_tion Circuit
Timing Generator
Data Latches and 3_state Output Buffer
OEB
1
3
4
5
6
7
8
9
10
12
DATA 0(LSB)
DATA 1
DATA 2
DATA 3
DATA 4
DATA 5
DATA 6
DATA 7(MSB)
CLK

ICP05 KDA0408


R OUT
G OUT
B OUT
9
7
5
DAC CORE (R)
DAC CORE (G)
DAC CORE (B)
CMOS BUFFER (R)
CMOS BUFFER (G)
CMOS BUFFER (B)
LATCH (R)
LATCH (G)
LATCH (B)
DECODER (R)
DECODER (G)
DECODER (B)
TTL INPUT BUFFER (R)
TTL INPUT BUFFER (G)
TTL INPUT BUFFER (B)
CP AMP
REFFRENCE REGISTER
BANDGAP REFFERENCE VOLTAGE
2.4.6.8 AGND
10 AVcc
45 COMPEN
3 VR IN
47 VR OUT
11 DVcc
43 DGND
21 R DATA 0 (LSB)
20 R DATA 1
19 R DATA 2
18 R DATA 3
17 R DATA 4
16 R DATA 5
15 R DATA 6
14 R DATA 7 (MSB)
42 R CLK
30 G DATA 0 (LSB)
29 G DATA 1
28 G DATA 2
27 G DATA 3
26 G DATA 4
25 G DATA 5
23 G DATA 6
22 G DATA 7 (MSB)
41 G CLK
39 B DATA 0 (LSB)
38 B DATA 1
36 B DATA 2
35 B DATA 3
34 B DATA 4
33 B DATA 5
32 B DATA 6
31 B DATA 7 (MSB)
40 B CLK

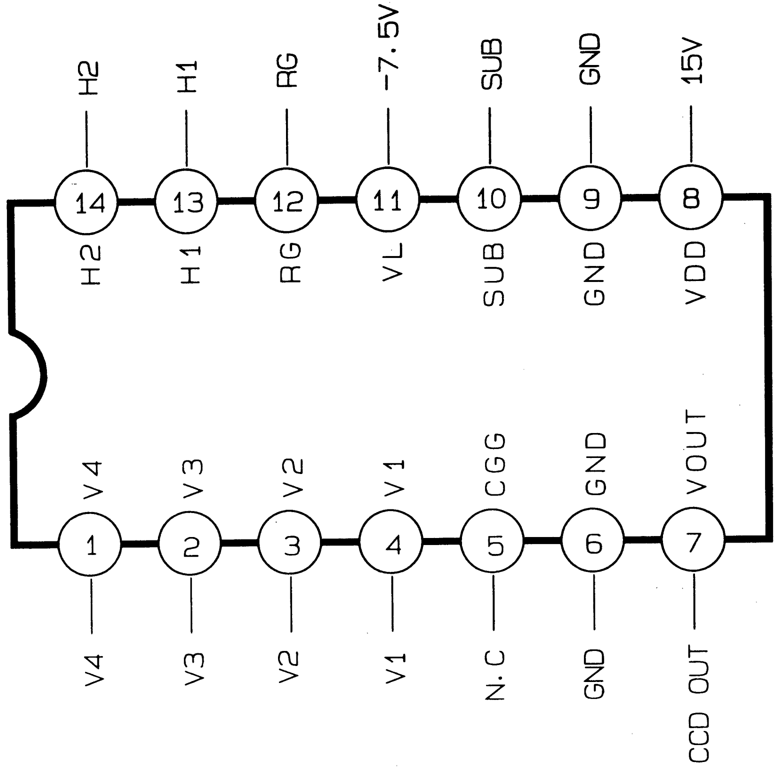
11-13 CCD

The schematic diagram of "CCD" is on page 11-26.

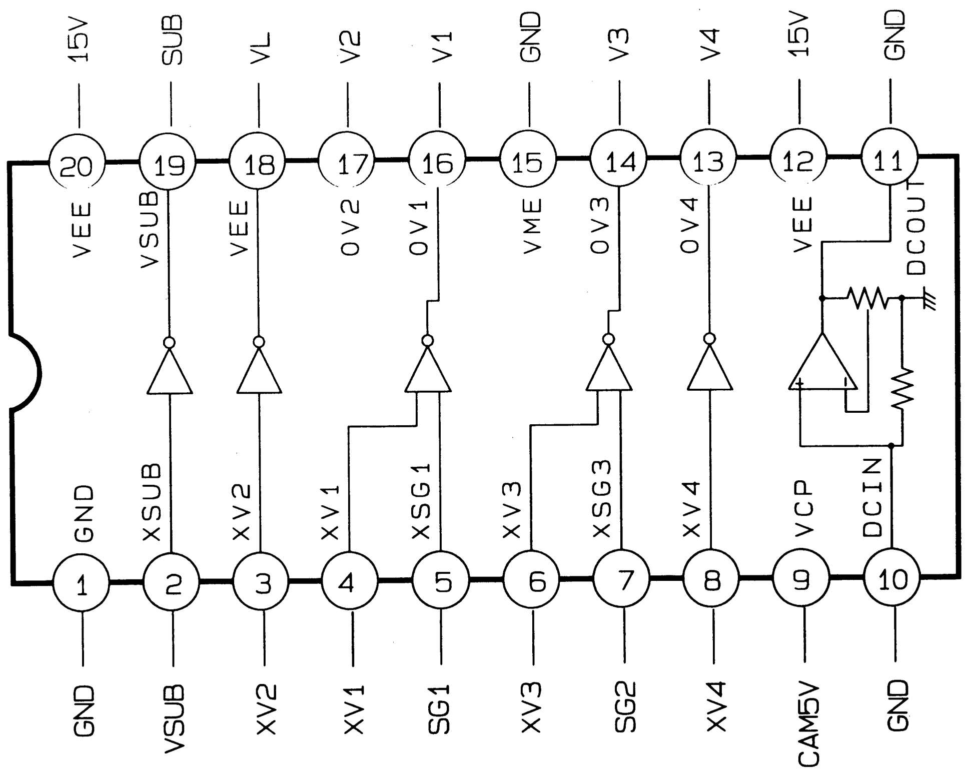
PIN NO	VOLTAGE(DC)
ICC01	ICX086AK
1	-6.3
2	-6.3
3	-0.2
4	-0.2
5	0.0
6	0.0
7	9.7
8	15
9	0.0
10	11.4
11	-8.0
12	2.8
13	2.1
14	2.1
ICC02	CXD1250
1	0.0
2	4.4
3	0.2
4	0.2
5	4.8
6	4.6
7	4.8
8	4.6
9	5.0
10	0.0
11	0.0
12	14.8
13	-6.3
14	-6.3
15	0.0
16	-0.2
17	-0.2
18	-6.6
19	-6.6
20	14.8
ICC03	MPC17A85Z
1	0.0
2	5.0
3	0.0/5.0
4	0.0
5	3.0
6	0.3
7	0.4
8	0.3
9	0.4
10	5.0
11	0.0
12	7.0
13	
14	0.2
15	
16	0.0
17	
18	0.2
19	
20	7.0
21	1.4
22	14
23	12
24	7.2
25	2.5
26	2.5
27	0.0/5.0
28	2.5/0.0
29	5.0
30	5.0

PIN NO	VOLTAGE(DC)
ICC04	MPC17A85Z
1	0.0
2	0.0/5.0
3	0.0/5.0
4	0.0
5	3.0
6	0.3
7	0.4
8	0.3
9	0.4
10	5.0
11	0.0
12	7.0
13	
14	0.2
15	
16	0.0
17	
18	0.2
19	
20	7.0
21	1.4
22	14
23	12
24	7.2
25	2.5
26	2.5
27	0.0/5.0
28	2.5/0.0
29	5.0
30	5.0
QC01	DTC144EU
E	0.0
B	0.0/5.0
C	0.0/5.0
QC02	DTC144EU
E	0.0
B	0.0/5.0
C	0.0/5.0
QC03	2SK300
D	10.2
G	9.7
S	14.5
QC04	DTC144EU
E	0.0
B	0.0
C	3.7

ICC01 ICX087AK


H2
H1
RG
-7.5V
SUB
GND
15V
14
13
12
11
10
9
8
H2
H1
RG
VL
SUB
GND
VDD
V4
V3
V2
V1
CGG
GND
VOUT
1
2
3
4
5
6
7
V4
V3
V2
V1
N.C
GND
CCD OUT

ICC02 CXD-1250N

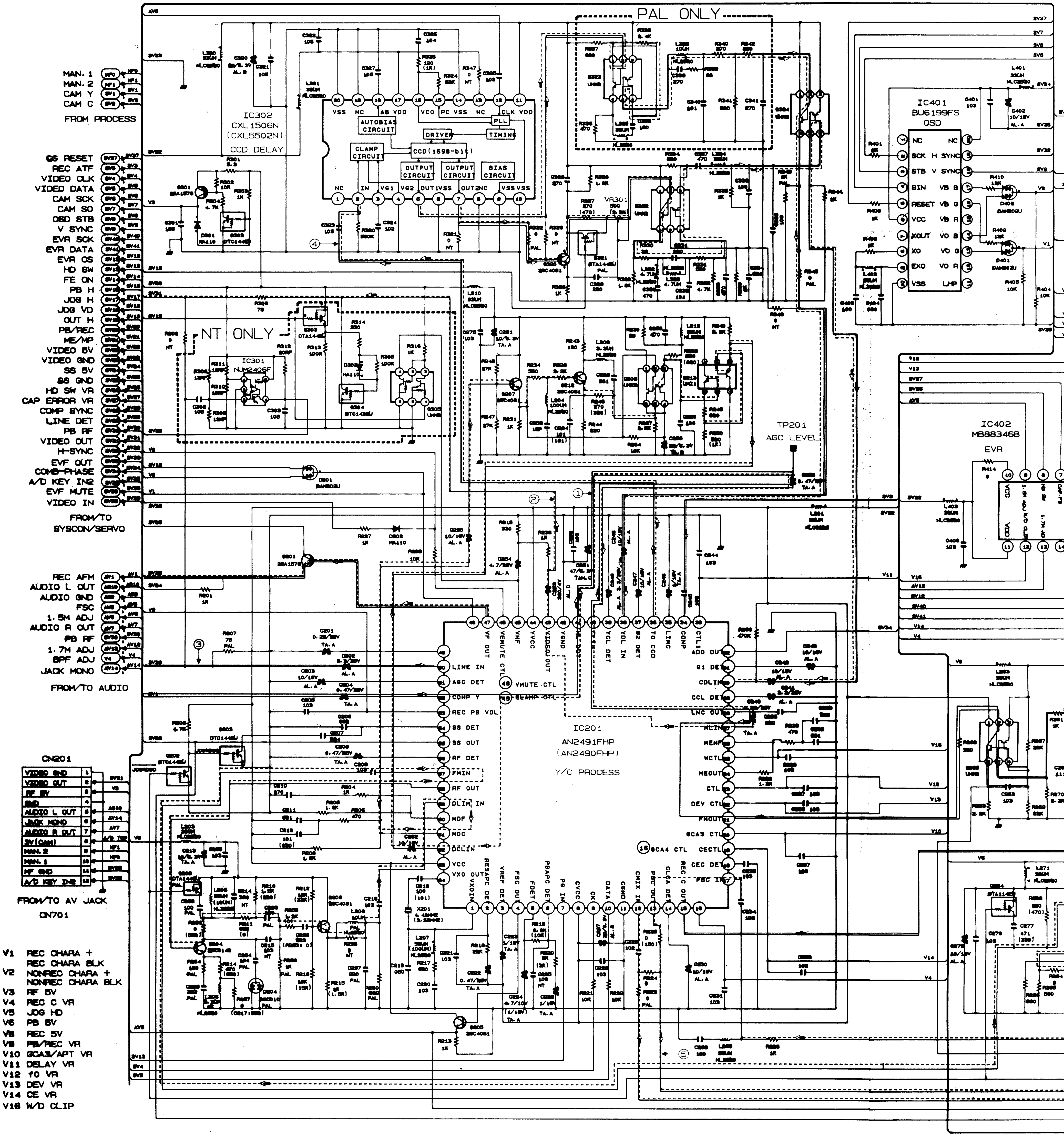

15V
SUB
VL
V2
V1
GND
V3
V4
15V
GND
20
19
18
17
16
15
14
13
12
11
VEE
VSUB
VEE
OV2
OV1
VME
OV3
OV4
VEE
DCOUT
GND
XSUB
XV2
XV1
XSG1
XV3
XSG3
XV4
VCP
DCIN
1
2
3
4
5
6
7
8
9
10
GND
VSUB
XV2
XV1
SG1
XV3
SG2
XV4
CAM5V
GND

11-9 Video

RED ———— VIDEO (Y+C) REC PROCESS
- - - - - - VIDEO (Y+C) PB PROCESS

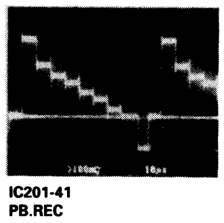
BLUE ———— REC C PROCESS
- - - - - - PB C PROCESS

GREEN ———— REC Y PROCESS
- - - - - - PB Y PROCESS


PAL ONLY
NT ONLY
IC302
CXL1506N
(CXL5502N)
CCD DELAY
AUTOBIAS CIRCUIT
CLAMP CIRCUIT
CCD(1698-bit)
DRIVER
PLL
TIMING
OUTPUT CIRCUIT
BIAS CIRCUIT
VR301
IC301
NJM2406F
IC401
BU6199FS
OSD
IC402
MB88346B
EVR
TP201
AGC LEVEL
IC201
AN2491FHP
(AN2490FHP)
Y/C PROCESS
MAN. 1
MAN. 2
CAM Y
CAM C
FROM PROCESS
CG RESET
REC ATF
VIDEO CLK
VIDEO DATA
CAM SCK
CAM SO
OSD STB
V SYNC
EVR SCK
EVR DATA
EVR CS
HD SW
FE ON
PB H
JOG H
JOG VD
OUT H
PB/REC
ME/MP
VIDEO 5V
VIDEO GND
SS 5V
SS GND
HD SW VR
CAP ERROR VR
COMP SYNC
LINE DET
PB RF
VIDEO OUT
H-SYNC
EVF OUT
COMB-PHASE
A/D KEY IN2
EVF MUTE
VIDEO IN
FROM/TO SYSCON/SERVO
REC AFM
AUDIO L OUT
AUDIO GND
FSC
1.5M ADJ
AUDIO R OUT
PB RF
1.7M ADJ
BPF ADJ
JACK MONO
FROM/TO AUDIO
CN201
VIDEO GND
VIDEO OUT
RF 5V
GND
AUDIO L OUT
JACK MONO
AUDIO R OUT
5V(CAM)
MAN. 2
MAN. 1
RF GND
A/D KEY IN2
FROM/TO AV JACK
CN701
①
②
③
④
⑤
⑥
⑦
⑧

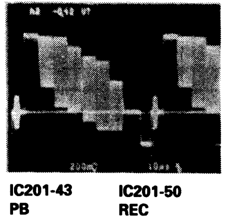
V1 REC CHARA +
REC CHARA BLK
V2 NONREC CHARA +
NONREC CHARA BLK
V3 RF 5V
V4 REC C VR
V5 JOG HD
V6 PB 5V
V8 REC 5V
V9 PB/REC VR
V10 GCA3/APT VR
V11 DELAY VR
V12 f0 VR
V13 DEV VR
V14 CE VR
V16 W/D CLIP

①



IC201-41
PB.REC
500mVp-p

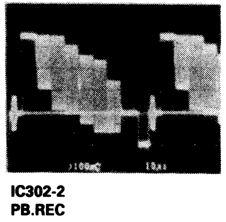
② ③



IC201-43
PB
1Vp-p

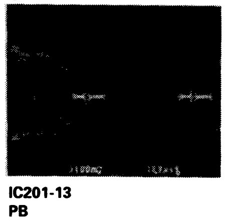
IC201-50
REC
1Vp-p

④



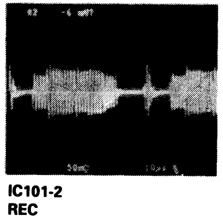
IC302-2
PB.REC
500mVp-p

⑤



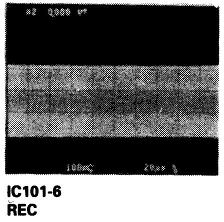
IC201-13
PB
400mVp-p

⑥



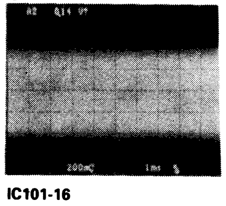
IC101-2
REC
120mVp-p

⑦



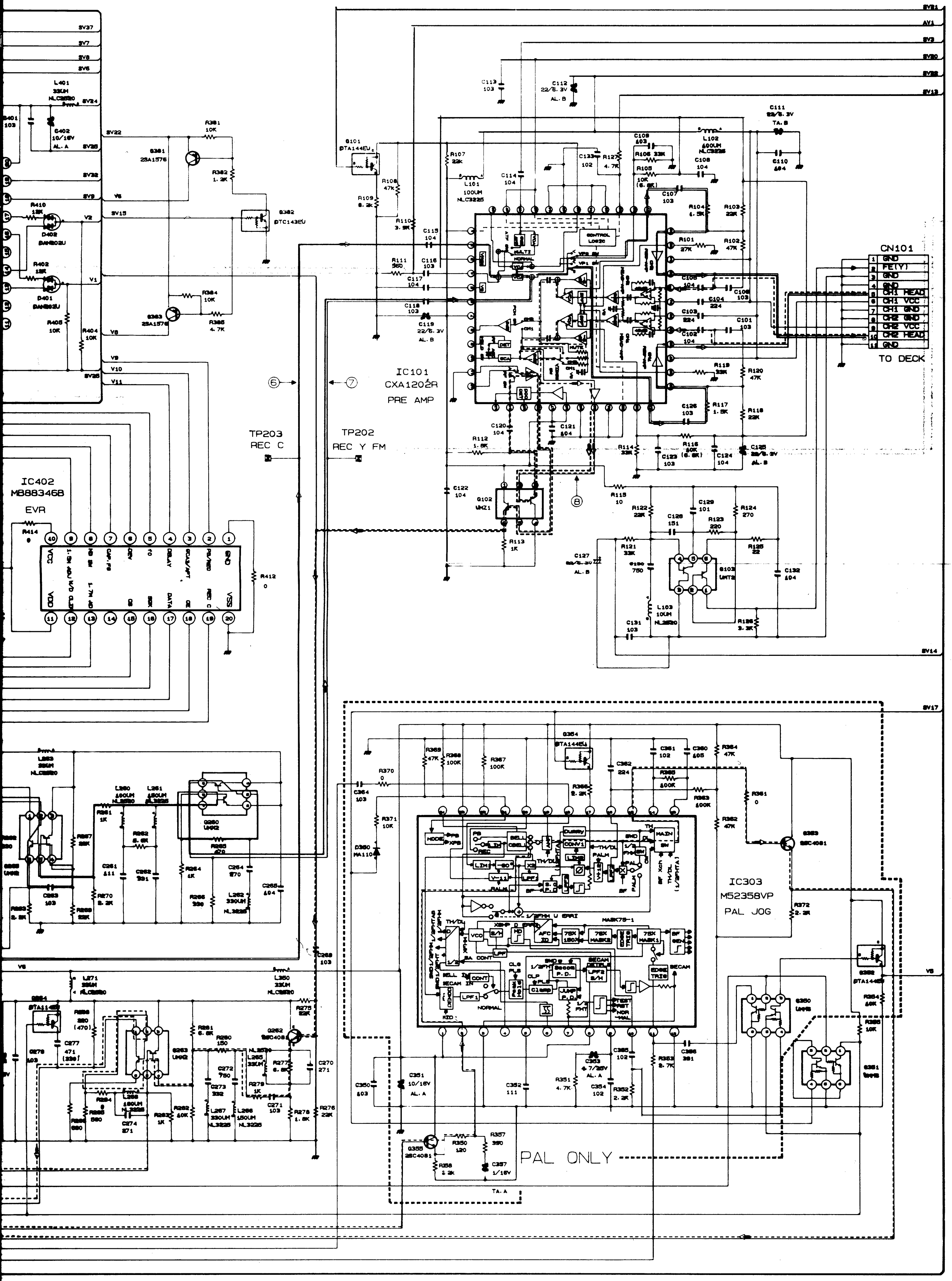
IC101-6
REC
280mVp-p

⑧



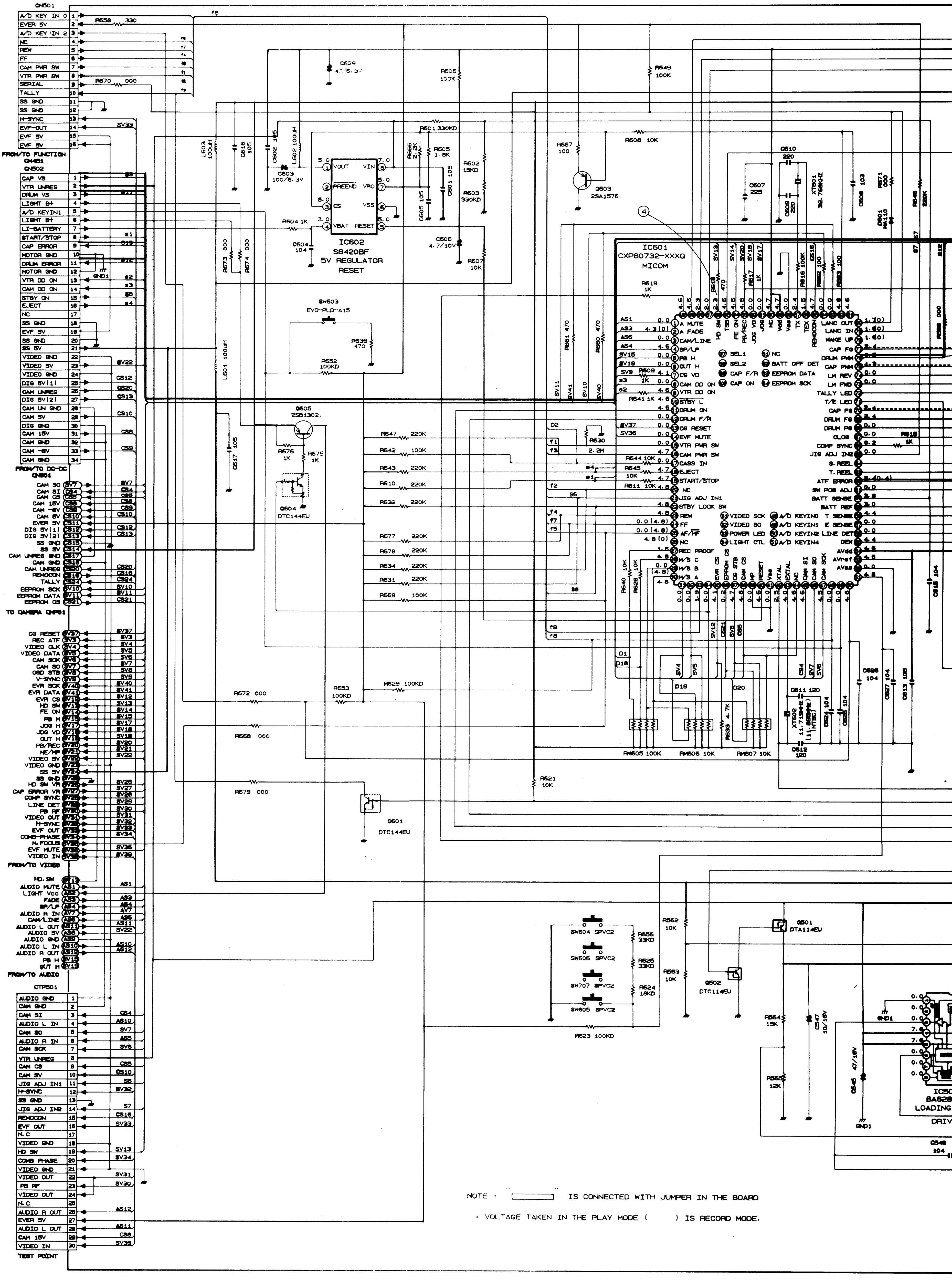
IC101-16
PB
300mVp-p

OCESS
CESS


IC101
CXA1202R
PRE AMP
IC402
MB88346B
EVR
IC303
M52358VP
PAL JOG
CN101
1 GND
2 FE(Y)
3 GND
4 GND
5 CH1 HEAD
6 CH1 VCC
7 CH1 GND
8 CH2 GND
9 CH2 VCC
10 CH2 HEAD
11 GND
TO DECK
TP203
REC C
TP202
REC Y FM
⑥
⑦
⑧
PAL ONLY
Q101
DTA144EU
Q102
UMZ1
Q103
UMT2
Q381
2SA1576
Q382
DTC143EU
Q383
2SA1576
D401
DAN202U
D402
DAN202U
L401
33UH
NLC2520
Q354
DTA144EU
Q355
2SC4081
Q363
2SC4081
D360
MA110
Q262
2SC4081
Q260
UMX2
Q263
UMX2
SV21
AV1
SV3
SV20
SV22
SV13
SV14
SV17
SV37
SV7
SV8
SV6
SV24
SV25
SV32
SV9
V2
V1
V8
V9
V10
V11
SV15
SV26

11-8 System Control/Servo

RED —— DRUM SPEED SERVO BLUE —— CAPSTAN SERVO (SPEED AND PH
- - - - - DRUM PHASE SERVO - - - - - CAPSTAN PHASE SERVO

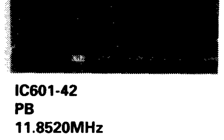


CN501
A/D KEY IN 0
EVER 5V
A/D KEY IN 2
NC
REW
FF
CAM PWR SW
VTR PWR SW
SERIAL
TALLY
SS GND
H-SYNC
EVF-OUT
EVF 5V
FROM/TO FUNCTION CN451
CN502
CAP VS
VTR UNREG
DRUM VS
LIGHT B+
A/D KEYIN1
LI-BATTERY
START/STOP
CAP ERROR
MOTOR GND
DRUM ERROR
VTR DD ON
CAM DD ON
STBY ON
EJECT
VIDEO GND
VIDEO 5V
DIG 5V(1)
CAM UNREG
DIG 5V(2)
CAM UN GND
CAM 5V
DIG GND
CAM 15V
CAM GND
CAM -8V
FROM/TO DC-DC CN801
TO CAMERA CNP01
FROM/TO VIDEO
FROM/TO AUDIO
CTP501
TEST POINT
IC602
S8420BF
5V REGULATOR
RESET
SW603
EVQ-PLD-A15
Q605
2SB1302
Q604
DTC144EU
Q601
DTC144EU
Q603
2SA1576
IC601
CXP80732-XXXQ
MICOM
XT601
32.768KHZ
XT602
11.7188MHz
Q501
DTA114EU
Q502
DTC114EU
SW604 SPVC2
SW606 SPVC2
SW707 SPVC2
SW605 SPVC2
IC501
BA626
LOADING
DRIV
RM605 100K
RM606 10K
RM607 10K

NOTE : ▭ IS CONNECTED WITH JUMPER IN THE BOARD

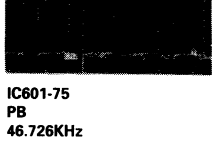
VOLTAGE TAKEN IN THE PLAY MODE ( ) IS RECORD MODE.

①



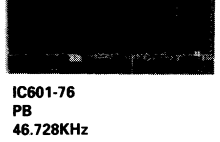
IC601-42
PB
11.8520MHz

②



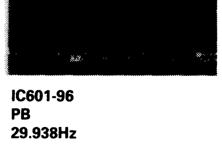
IC601-75
PB
46.726KHz

③



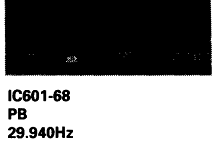
IC601-76
PB
46.728KHz

④



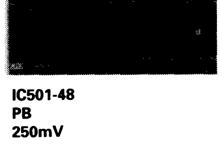
IC601-96
PB
29.938Hz

⑤



IC601-68
PB
29.940Hz

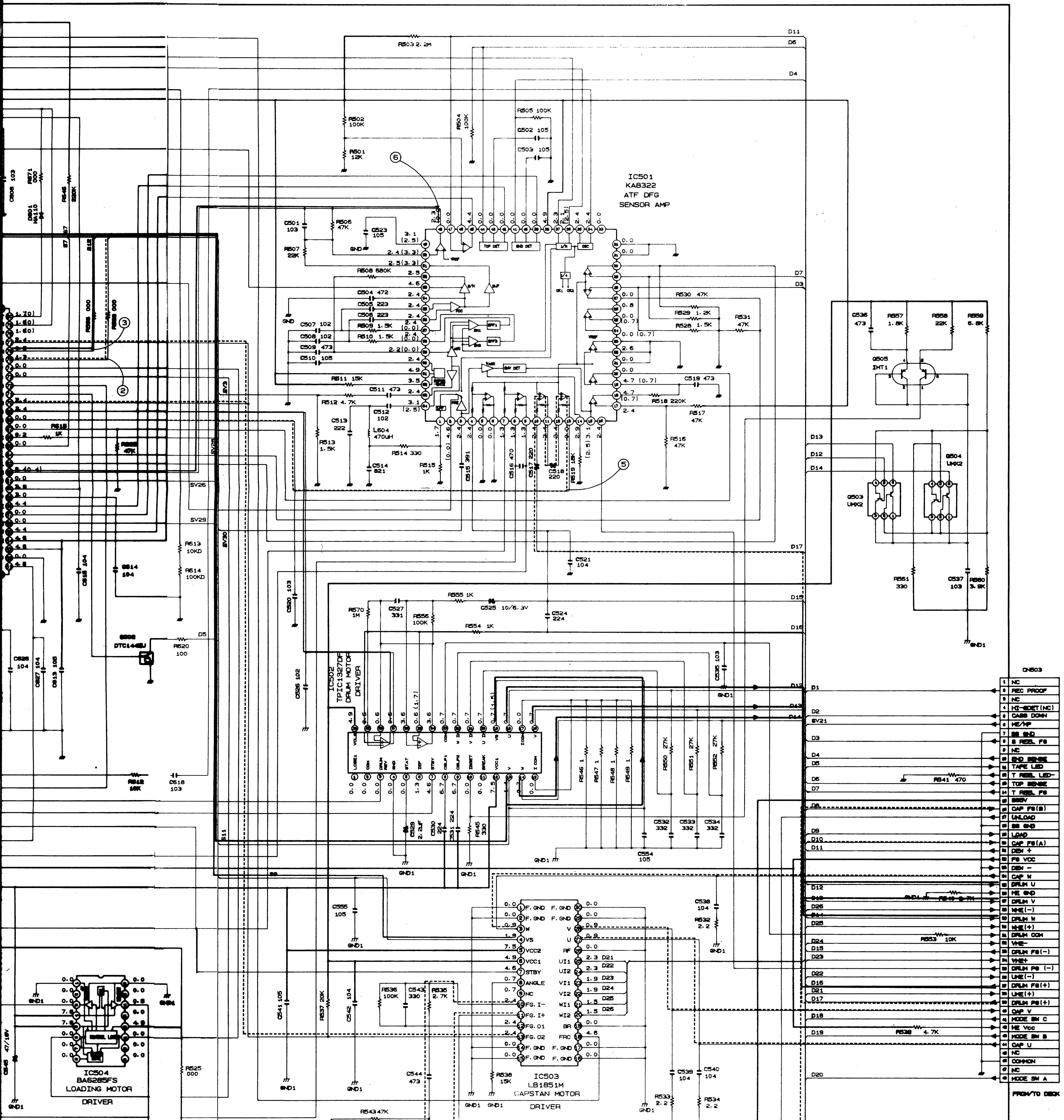
⑥



IC501-48
PB
250mV

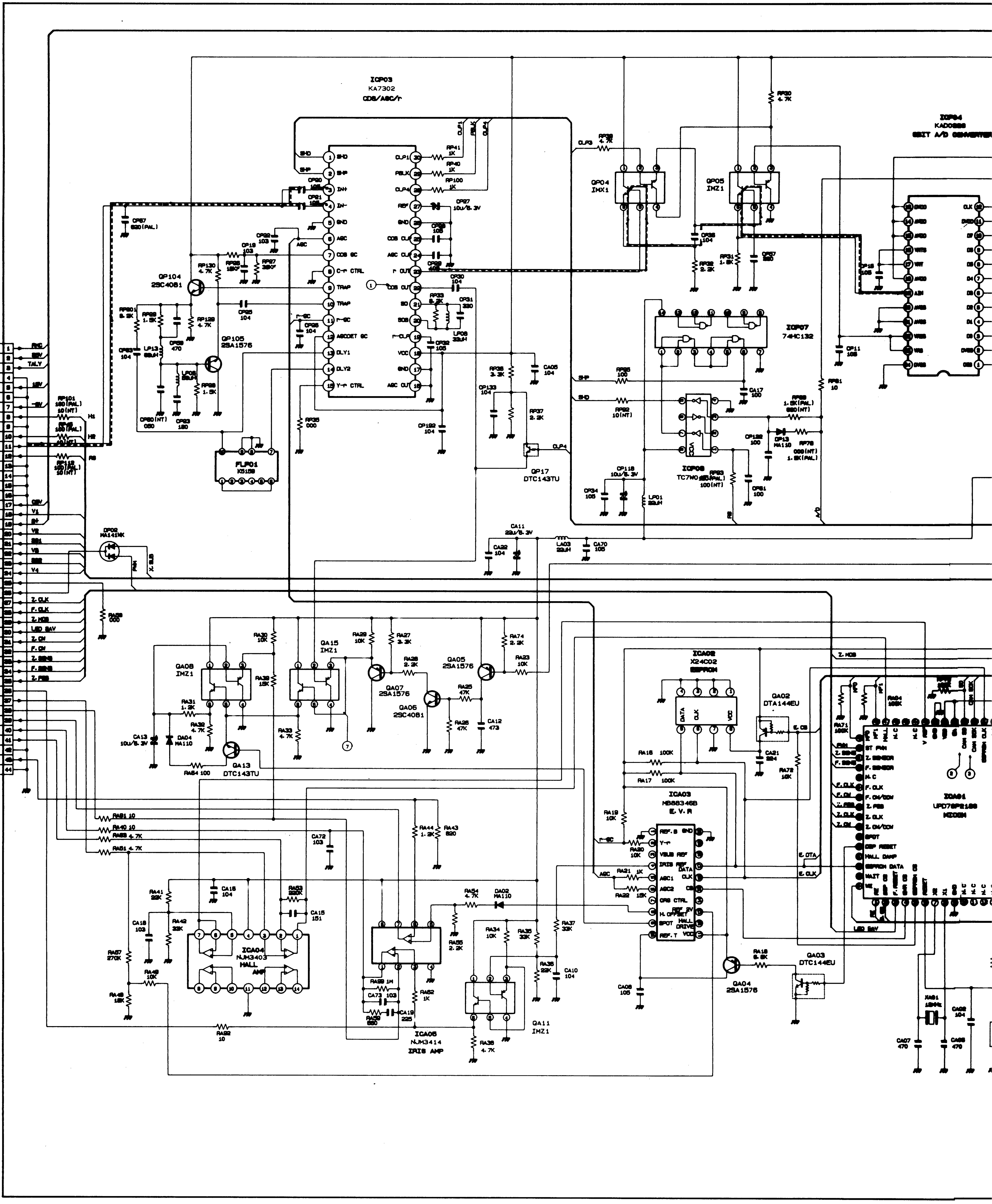
(SPEED AND PHASE)
SERVO

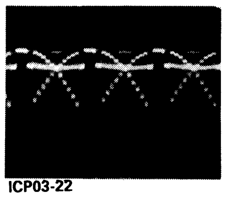
GREEN ———— **DRUM SERVO (SPEED AND PHASE)**

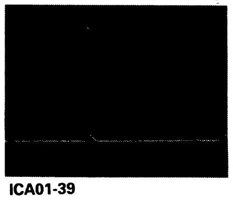

IC501
KA8322
ATF DFG
SENSOR AMP
IC502
TPIC1327DF
DRUM MOTOR
DRIVER
IC503
LB1851M
CAPSTAN MOTOR
DRIVER
IC504
BA6285FS
LOADING MOTOR
DRIVER
Q502
DTC144EU
Q503
UMX2
Q504
UMX2
Q505
IMT1
CN503
1 NC
2 REC PROOF
3 NC
4 HI-8DET(NC)
5 CASS DOWN
6 ME/MP
7 SS GND
8 S REEL FG
9 NC
10 END SENSE
11 TAPE LED
12 T REEL LED-
13 TOP SENSE
14 T REEL FG
15 SSSV
16 CAP FG(B)
17 UNLOAD
18 SS GND
19 LOAD
20 CAP FG(A)
21 DEW +
22 FG VCC
23 DEW -
24 CAP W
25 DRUM U
26 HE GND
27 DRUM V
28 WHE(-)
29 DRUM W
30 WHE(+)
31 DRUM COM
32 VHE-
33 DRUM FG(-)
34 VHE+
35 DRUM PG (-)
36 UHE(-)
37 DRUM FG(+)
38 UHE(+)
39 DRUM PG(+)
40 CAP V
41 MODE SW C
42 HE Vcc
43 MODE SW B
44 CAP U
45 NC
46 COMMON
47 NC
48 MODE SW A
FROM/TO DECK
MAIN C.B.A

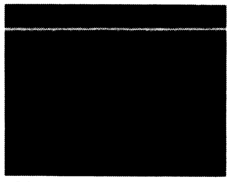
11-13 Camera Main

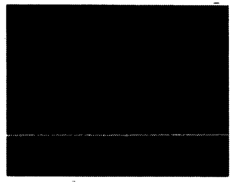
RED ———— CHROMINANCE SIGNAL
------------- LUMINANCE SIGNAL

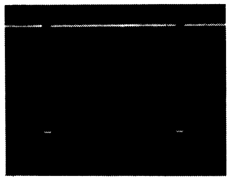

ICP03
KA7302
CDS/AGC/γ
ICP04
KAD0898
8BIT A/D CONVERTER
QP04
IMZ1
QP05
IMZ1
ICP07
74HC132
ICP08
TC7W04
QP104
2SC4081
QP105
2SA1576
FLP01
QP17
DTC143TU
CNP01
FROM/TO CCD
CN001
QP09
MA141WK
QA08
IMZ1
QA15
IMZ1
QA07
2SA1576
QA05
2SA1576
QA06
2SC4081
QA13
DTC143TU
ICA02
X24C02
EEPROM
QA02
DTA144EU
ICA03
MB88346B
E.V.R
ICA01
UPD78P2188
MICOM
ICA04
NJM3403
HALL AMP
ICA05
NJM3414
IRIS AMP
QA11
IMZ1
QA04
2SA1576
QA03
DTC144EU

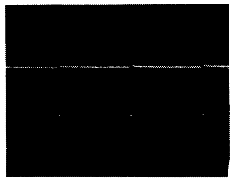
①

ICP03-22
CDS OUT

②

ICA01-39
CO

③

ICA01-38
SCK

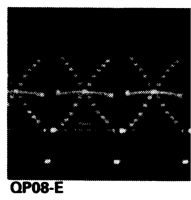
④

ICA01-35
CI

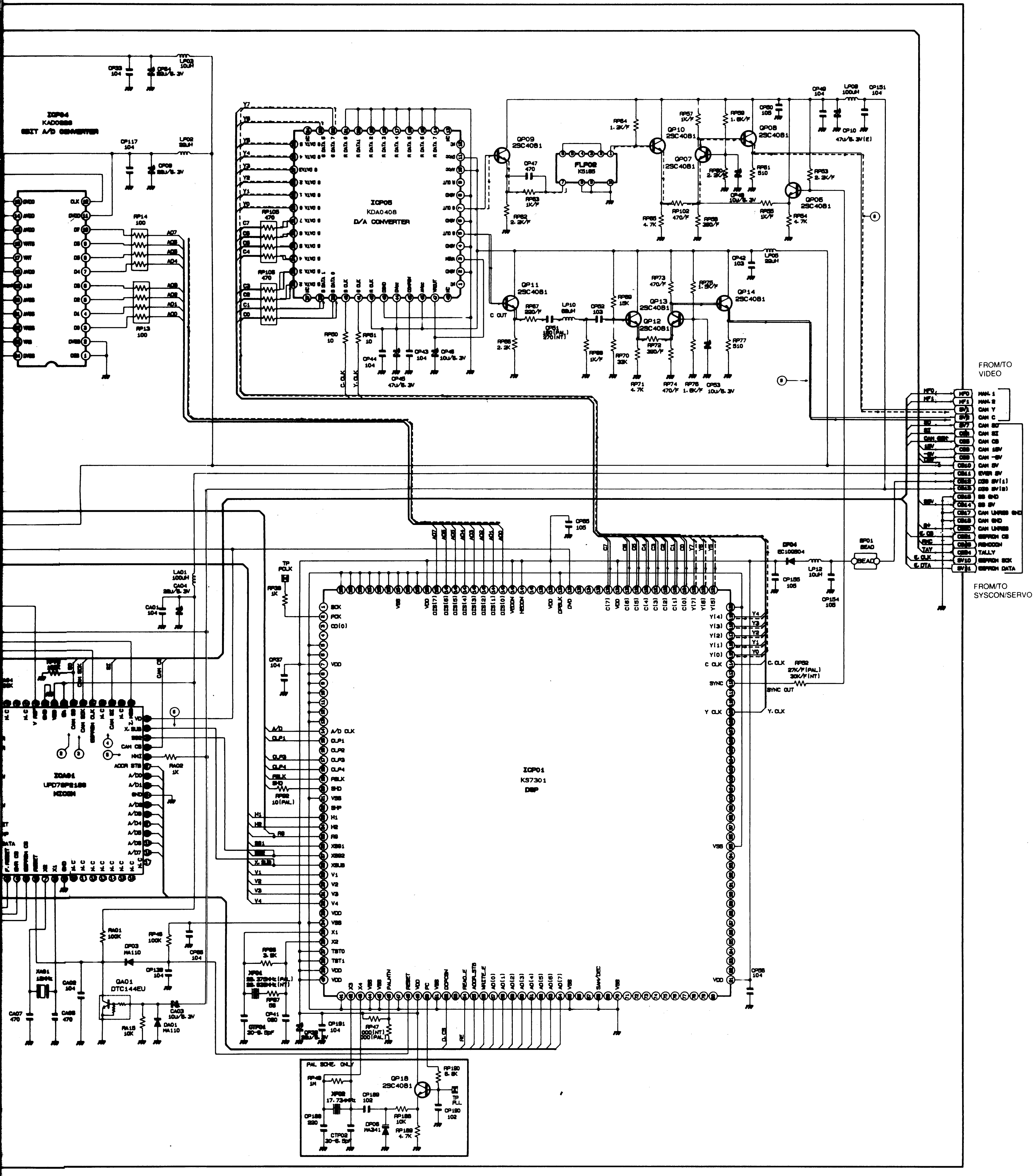
⑤

ICA01-29
CS

⑥

ICA01-32
VD

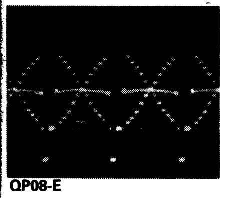
⑦

QA05-5
WND


QP08-E
CAM Y

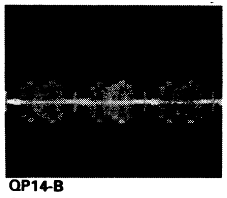

ICP04
KAD0206
8BIT A/D CONVERTER
ICP05
KDA0408
D/A CONVERTER
ICP01
KS7301
DSP
ICA01
UPD78P2169
MICOM
QP09 2SC4081
QP10 2SC4081
QP07 2SC4081
QP08 2SC4081
QP06 2SC4081
QP11 2SC4081
QP13 2SC4081
QP12 2SC4081
QP14 2SC4081
QP18 2SC4081
QA01 DTC144EU
FLP02 K5185
DP04 EC10QS04
BP01 BEAD
PAL SCHE. ONLY
FROM/TO
VIDEO
MF0 MAN. 1
MF1 MAN. 2
SV1 CAM Y
SV2 CAM C
SV7 CAM SO
CS4 CAM SI
CS5 CAM CS
CS8 CAM 15V
CS9 CAM -5V
CS10 CAM 5V
CS11 EVER 5V
CS12 DSS 5V(1)
CS13 DSS 5V(2)
CS15 SS GND
CS14 SS 5V
CS17 CAM UNREG GND
CS18 CAM GND
CS20 CAM UNREG
CS21 EEPROM CS
CS25 REMOCON
CS24 TALLY
SV10 EEPROM SCK
SV11 EEPROM DATA
FROM/TO
SYSCON/SERVO

⑧



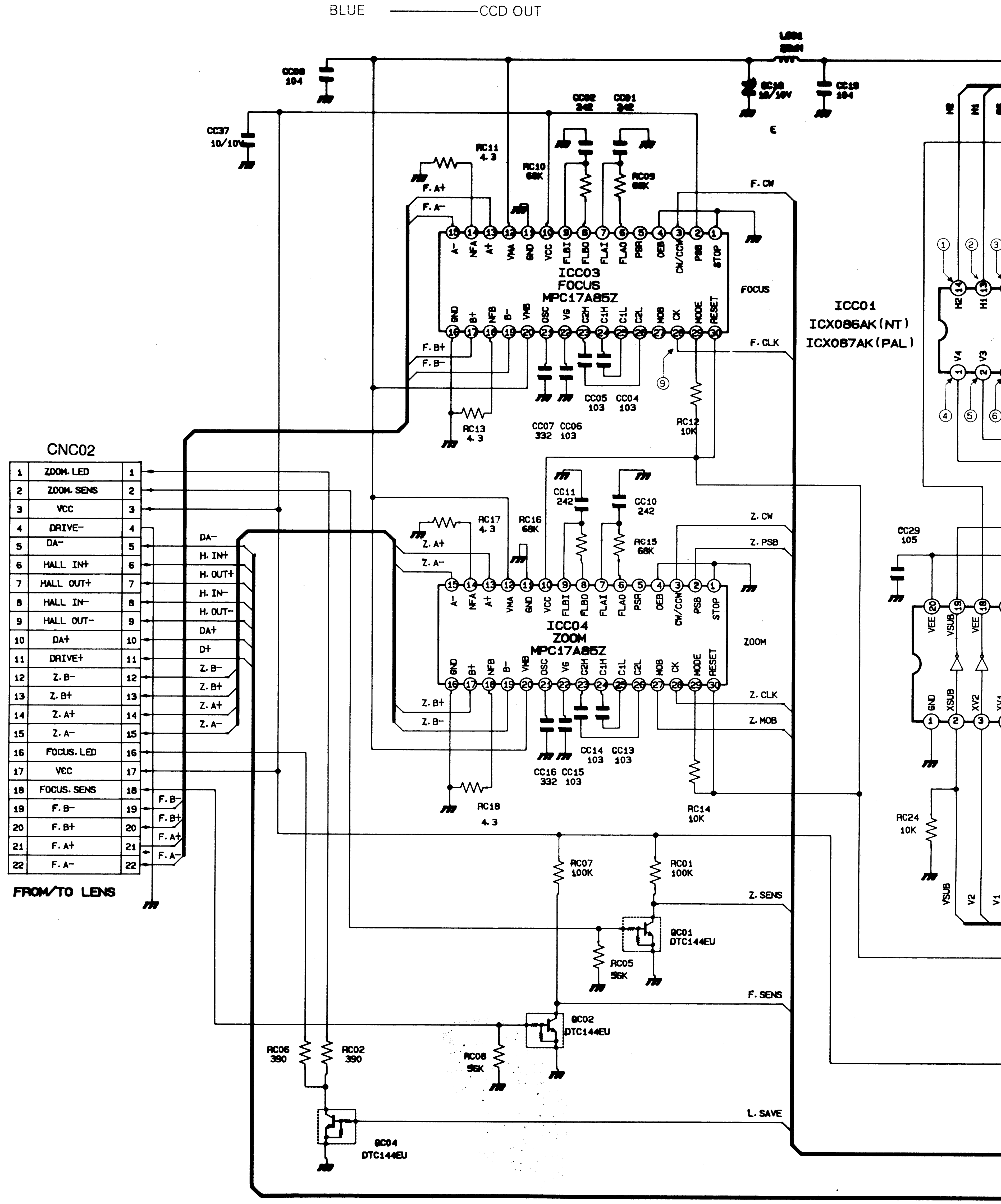
QP08-E
CAM Y

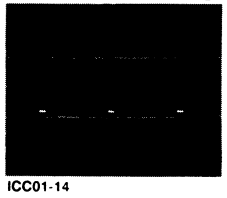
⑨

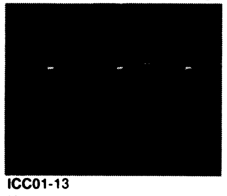


QP14-B
CAM C

11-12 CCD


BLUE
CCD OUT
L001
CC08 104
CC37 10/10V
CC02 242
CC01 242
CC18 10/16V
CC19 104
E
RC11 4.3
RC10 68K
RC09 68K
F.A+
F.A−
F.CW
ICC03
FOCUS
MPC17A85Z
A−
NFA
A+
VMA
GND
VCC
FLBI
FLBO
FLAI
FLAO
PSR
OEB
CW/CCW
PSB
STOP
B+
NFB
B−
VMB
OSC
VG
C2H
C1H
C1L
C2L
MOB
CK
MODE
RESET
F.B+
F.B−
F.CLK
CC05 103
CC04 103
CC07 332
CC06 103
RC13 4.3
RC12 10K
⑨
FOCUS
ICC01
ICX086AK(NT)
ICX087AK(PAL)
H2
H1
V4
V3
①
②
③
④
⑤
⑥
CNC02
ZOOM.LED
ZOOM.SENS
VCC
DRIVE−
DA−
HALL IN+
HALL OUT+
HALL IN−
HALL OUT−
DA+
DRIVE+
Z.B−
Z.B+
Z.A+
Z.A−
FOCUS.LED
VCC
FOCUS.SENS
F.B−
F.B+
F.A+
F.A−
FROM/TO LENS
DA−
H.IN+
H.OUT+
H.IN−
H.OUT−
DA+
D+
Z.B−
Z.B+
Z.A+
Z.A−
F.B−
F.B+
F.A+
F.A−
CC11 242
CC10 242
RC17 4.3
RC16 68K
RC15 68K
Z.A+
Z.A−
Z.CW
Z.PSB
ICC04
ZOOM
MPC17A85Z
ZOOM
Z.B+
Z.B−
Z.CLK
Z.MOB
CC14 103
CC13 103
CC16 332
CC15 103
RC18 4.3
RC14 10K
CC29 105
VEE
VSUB
GND
XSUB
XV2
RC24 10K
V2
V1
RC07 100K
RC01 100K
Z.SENS
QC01 DTC144EU
RC05 56K
F.SENS
QC02 DTC144EU
RC06 390
RC02 390
RC08 56K
L.SAVE
QC04 DTC144EU


①
ICC01-14
H2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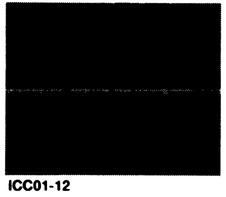
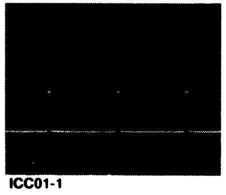
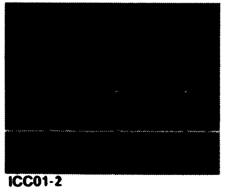
ICC01-13
H1


③
ICC01-12
RG


④
ICC01-1
V4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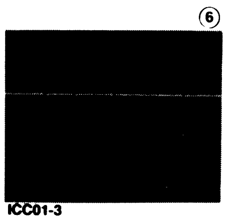
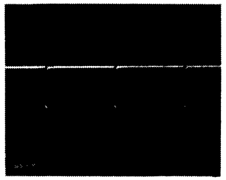
ICC01-2
V3


⑥
ICC01-3
V2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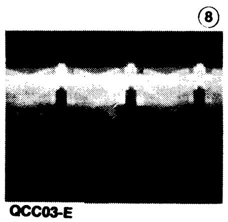
ICC01-4
V1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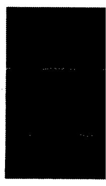
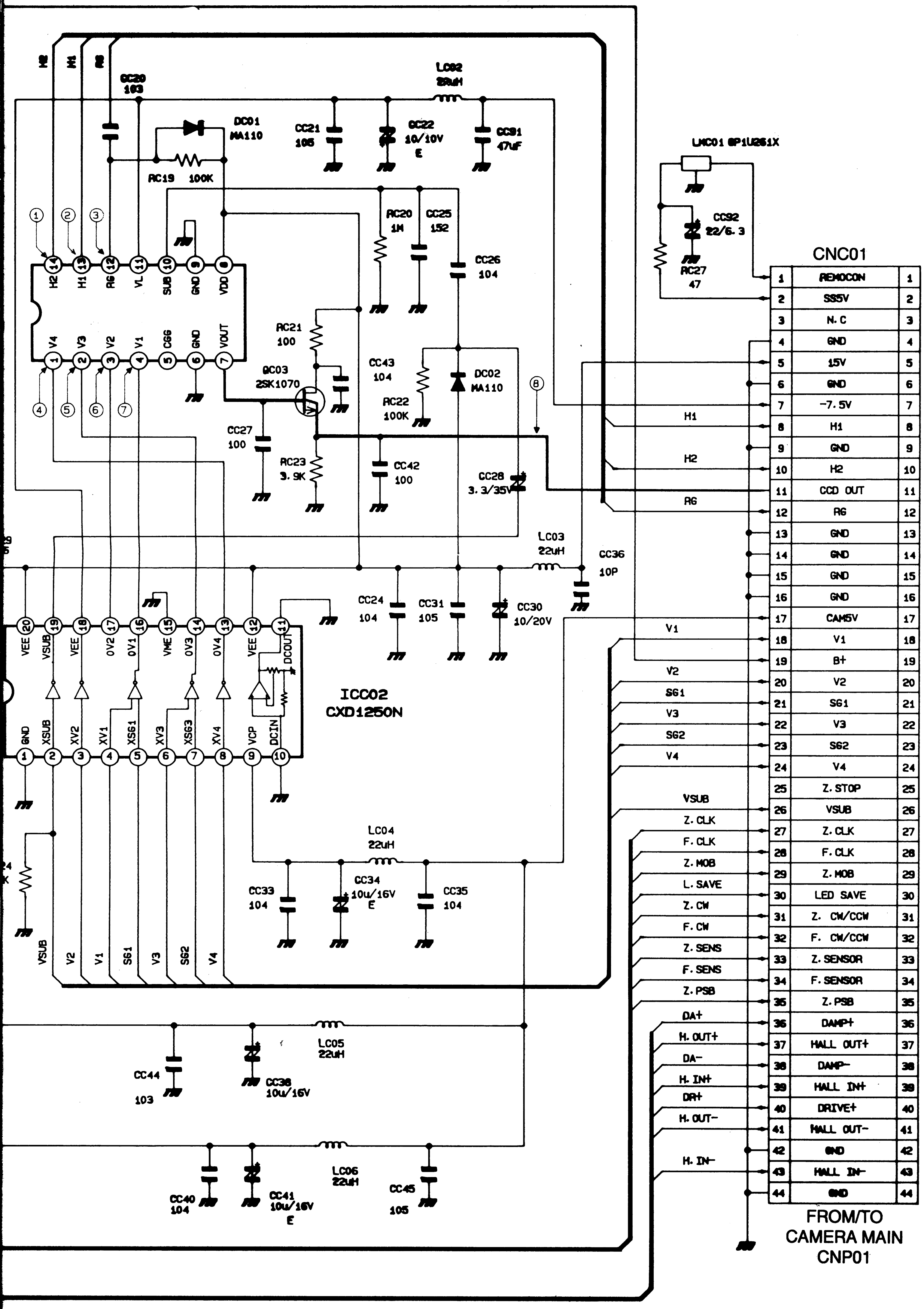
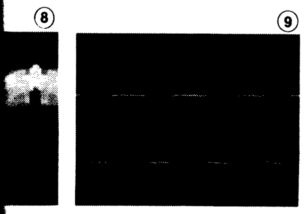
QCC03-E
CCD OUT


FOCUS


H2
H1
RG
CC20
103
LC02
22uH
DC01
MA110
CC21
105
CC22
10/10V
E
CC91
47uF
RC19
100K
LNC01 6P1U251X
CC92
22/6.3
RC27
47
RC20
1M
CC25
152
CC26
104
① ② ③
H2 14
H1 13
RG 12
VL 11
SUB 10
GND 9
VDD 8
V4 1
V3 2
V2 3
V1 4
CG6 5
GND 6
VOUT 7
④ ⑤ ⑥ ⑦
RC21
100
QC03
2SK1070
CC43
104
RC22
100K
DC02
MA110
⑧
CC27
100
RC23
3.9K
CC42
100
CC28
3.3/35V
LC03
22uH
CC36
10P
CC24
104
CC31
105
CC30
10/20V
VEE 20
VSUB 19
VEE 18
OV2 17
OV1 16
VME 15
OV3 14
OV4 13
VEE 12
DCOUT 11
ICC02
CXD1250N
GND 1
XSUB 2
XV2 3
XV1 4
XSG1 5
XV3 6
XSG3 7
XV4 8
VCP 9
DCIN 10
LC04
22uH
CC33
104
CC34
10u/16V
E
CC35
104
VSUB
V2
V1
SG1
V3
SG2
V4
LC05
22uH
CC44
103
CC38
10u/16V
LC06
22uH
CC40
104
CC41
10u/16V
E
CC45
105
H1
H2
RG
V1
V2
SG1
V3
SG2
V4
VSUB
Z.CLK
F.CLK
Z.MOB
L.SAVE
Z.CW
F.CW
Z.SENS
F.SENS
Z.PSB
DA+
H.OUT+
DA-
H.IN+
DR+
H.OUT-
H.IN-
CNC01
1 REMOCON 1
2 SS5V 2
3 N.C 3
4 GND 4
5 15V 5
6 GND 6
7 -7.5V 7
8 H1 8
9 GND 9
10 H2 10
11 CCD OUT 11
12 RG 12
13 GND 13
14 GND 14
15 GND 15
16 GND 16
17 CAM5V 17
18 V1 18
19 B+ 19
20 V2 20
21 SG1 21
22 V3 22
23 SG2 23
24 V4 24
25 Z.STOP 25
26 VSUB 26
27 Z.CLK 27
28 F.CLK 28
29 Z.MOB 29
30 LED SAVE 30
31 Z. CW/CCW 31
32 F. CW/CCW 32
33 Z.SENSOR 33
34 F.SENSOR 34
35 Z.PSB 35
36 DAMP+ 36
37 HALL OUT+ 37
38 DAMP- 38
39 HALL IN+ 39
40 DRIVE+ 40
41 HALL OUT- 41
42 GND 42
43 HALL IN- 43
44 GND 44
FROM/TO
CAMERA MAIN
CNP01


⑧
⑨
FOCUS

1. Adjustment

1-1 Initial Data (VP-K60/VP-K70/VP-K75)

1-1-1 Initial data change according to the change of ICA01 from OTP to Masking.

During camera adjustment, the OSD displays the following :

Example) " 00 XXXX XX XX "

Note : "Data 1" is previous setting in memory, "Data 2" is cuarent adjustment setting (changes during adjustment mode). After pressing "START/STOP (Confirm)", it is stored in memory.

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
54	A. HAL	A. HAL	AUTO HALL ADJ.	00	00	
52	A. IRI	A. IRI	AUTO IRIS ADJ.	00	00	
53	A. AGC	A. AGC	AUTO AGC ADJ.	00	00	
55	A. W/B	A. W/B	AUTO WHITE BALANCE ADJ.	00	00	
56	A. LEN	A. LEN	AUTO ZOOM TRACK ADJ.	00	00	
00	Y. GAM	Y. GAM	Y GAMMA	78	78	→ CHANGE DATA1, DATA2
01				00	00	
02	IRI. REF	IRI. RER	IRIS CONTROL	80	80	→ CHANGE NAME, OSD, DATA1, DATA2
03	AGC. 1	AGC. 1	AGC CONTROL 1.	40	40	
04	AGC. 2	AGC. 2	AGC CONTROL 2.	00	00	
05				00	00	
06	HAL. G	HAL. G	HALL GAIN CONTROL	60	60	→ CHANGE DATA1, DATA2
07	P. H. R	P. H. R	PEAK HOLD REFERENCE	50	50	→ CHANGE DATA1, DATA2
08				00	00	→ CHANGE DATA1, DATA2
09	HAL. R	HAL. R	HALL REF. CONTROL	70	70	→ CHANGE DATA1, DATA2
0A				00	00	→ CHANGE DATA1, DATA2
0B	BST	BST	DSP STATUS REG.	00	00	
0C	DADR	DADR	RAM ADDRESS REG.	00	00	
0D	DMDL	DMDL	RAM DATA LOW BYTE	00	00	
0E	DMDH	DMDH	RAM DATA HIGH BYTE	00	00	
0F	DCMD	DCMD	DM COMMAND REG.	04	04	
10	DDIS	DDIS	DIS COMMAND	00	00	
11	COV1	COV1	AUTO KNEE COEF. 1	00	00	
12	COV2	COV2	AUTO KNEE COEF. 2	68	68	
13	CAG	CAG	APERTURE GAIN CONTROL	D0	D0	→ CHANGE DATA1, DATA2
14	CCOA	CCOA	COLOR SEPERATION COEF. 1	21	21	
15	CCOB	CCOB	COLOR SEPERATION COEF. 2	33	33	
16	CAKP	CAKP	AUTO KNEE POINT	D0	D0	→ CHANGE DATA1, DATA2
17	CNSL	CNSL	NOISE SLICE LEVEL	03	03	→ CHANGE DATA1, DATA2
18	CAPS	CAPS	EDGE CHROMA GAIN	04	04	
19	CRCO	CRCO	CCR GAIN	38	38	→ CHANGE DATA1, DATA2
1A	CBCO	CBCO	CCB GAIN	38	38	→ CHANGE DATA1, DATA2
1B	CGCO	CGCO	YL GAIN	80	80	
1C	CUTH	CUTH	S/I LOW THRESHOLD	0B	0B	
1D	CLTH	CLTH	S/I HIGH THRESHOLD	0B	0B	
IE	MRPW	MRPW	R PRE-WHITE BALANCE	40	40	
1F	MGPW	MGPW	G PRE-WHITE BALANCE	20	20	
20	MBPW	MBPW	B PRE-WHITE BALANCE	40	40	
21	MRWB	MRWB	R WHITE BALANCE	36	36	
22	MBWB	MBWB	B WHITE BALANCE	90	90	→ CHANGE DATA1, DATA2
23	MDSCR	MDSCR	DARK SLICE R	04	04	
24	MDSCB	MDSCB	DARK SLICE B	FE	FE	
25	MDSCG	MDSCG	DARK SLICE G	FA	FA	
26	MRHC	MRHC	R-Y HUE	29	29	→ CHANGE DATA1, DATA2
27	MBHC	MBHC	B-Y HUE	15	15	→ CHANGE DATA1, DATA2
28	MRYG	MRYG	R-Y GAIN	3E	3E	→ CHANGE DATA1, DATA2
29	MRBG	MRBG	B-Y GAIN	29	29	→ CHANGE DATA1, DATA2

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
2A	MA1C	MA1C	MATRIX COEF. A1	B3	B3	
2B	MB1C	MB1C	MATRIX COEF. B1	4D	4D	
2C	MA2C	MA2C	MATRIX COEF. A2	1C	1C	
2D	MB2C	MB2C	MATRIX COEF. B2	E4	E4	
2E	SCMD	SCMD		01	01	→ ADD
2F	SCOL	SCOL		00	00	→ ADD
30	SDAT	SDAT		00	00	→ ADD
31	SPG	SPG		00	00	→ ADD
41	STH	STH		00	00	→ ADD
42	STV	STV		20	20	→ ADD
43	SSYN	SSYN		10	10	→ ADD
44	SVRT	SVRT		0B	0B	→ ADD
45	EHSBY	EHSBY	B-Y BURST CARRIER GAIN	D7	D7	→ CHANGE DATA1, DATA2
46	EHSRY	EHSRY	R-Y BURST CARRIER GAIN	27	27	→ CHANGE DATA1, DATA2
47	ECFAD	ECFAD	CHROMA FADE CONTROL	48	48	
48	EWCLP	EWCLP	WHITE CLIP LEVEL	D0	D0	→ CHANGE DATA1, DATA2
49	EYFAD	EYFAD	Y FADE CONTROL	80	80	→ CHANGE DATA1, DATA2
4A	SETUP	SETUP	Y SETUP LEVEL 1	00	00	→ CHANGE DATA1, DATA2
4B	EBLKL	EBLKL	Y SETUP LEVEL 2	00	00	
4C	ECMD0	ECMD0	ENCORDER COMMAND 1	A0	A0	
4D	ECMD1	ECMD1	ENCORDER COMMAND 2	04	04	
4E	TCMD0	TCMD0	TIMING GEN. COMMAND 1	00	00	
4F	TCMD1	TCMD1	TIMING GEN. COMMAND 2	00	00	
50				00	00	→ CHANGE DATA1, DATA2
51				00	00	
52	A. IRE		AUTO IRIS ADJ.	00	00	
53	A. AGC		AUTO AGC ADJ.	00	00	
54	A. HAL		AUTO HALL ADJ.	00	00	
55	A. W/B		AUTO WHITE BALANCE ADJ.	00	00	
56	A. LEN		AUTO ZOOM TRACK ADJ.	00	00	
57				00	00	
58				00	00	
59				00	00	
5A				00	00	
5B				00	00	
5C				00	00	→ CHANGE DATA1, DATA2
5D				00	00	
5E				00	00	
5F				00	00	
60	INITIAL			00	00	→ ADD NAME, OSD
61	H. G. S	H. G. S	HALL GAIN START VALUE	50	50	→ CHANGE DATA1, DATA2
62	I. R. S		IRIS REF. START	58	58	→ CHANGE DATA1, DATA2
63	A. M. S		AGC MAX. START	B0	B0	
64	H. R. S	H. R. S	HALL REF. START	70	70	→ ADD NAME, OSD, CHANGE DATA1, DATA2
65	R. I. S		INDOOR R START	34	34	→ CHANGE DATA1, DATA2
66	B. I. S		INDOOR B START	A0	A0	→ CHANGE DATA1, DATA2
67	R. O. S		OUTDOOR R START	78	78	→ CHANGE DATA1, DATA2
68	B. O. S		OUTDOOR B START	5B	5B	→ CHANGE DATA1, DATA2
69	A. TGT		IRIS TARGET	60	60	→ CHANGE DATA1, DATA2
6A	A. T. %		AGC TARGET AEAVR %	60	60	→ CHANGE DATA1, DATA2
6B	L.A.W.P.H	L.A.W.P.H		68	68	→ CHANGE DATA1, DATA2
6C				00	00	
6D				00	00	
6E				00	00	
6F				00	00	
70	H. MIN	H. MIN	HALL MIN. VALUE	30	30	→ CHANGE DATA1, DATA2
71	H. MAX		HALL MAX. VALUE	F0	F0	→ CHANGE DATA1, DATA2
72	A. S. %		AGC START HALL %	D0	D0	
73	A. S. H		AGC START HALL	B0	B0	→ CHANGE DATA1, DATA2
74				00	00	

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
75				00	00	
76				00	00	
77				00	00	
78	A. MIN		AGC MIN.	50	50	
79	A. MAX		AGC MAX.	B0	B0	→ CHANGE DATA1, DATA2
7A	CFMIN		C FADE MINIMUM	04	04	
7B	CFS. A		C FADE START AGC	90	90	→ CHANGE DATA1, DATA2
7C	NSAGC		NOISE SLICE AGC	72	72	
7D	BLCON		BLC ON	40	40	→ CHANGE DATA1, DATA2
7E	HSSSH		HSS START HALL	40	40	→ CHANGE DATA1, DATA2
7F				00	00	
80				00	00	
81				00	00	
82				00	00	
83				00	00	
84				00	00	
85	ASAE%			F0	F0	→ CHANGE DATA1, DATA2
86	YBLSA		EYBLK START AGC	90	90	→ CHANGE DATA1, DATA2
87	YBLKM		EYBLK MAX	08	08	→ CHANGE DATA1, DATA2
88	Ye. R		MDSCR YELLO	60	60	
89	Ye. G		MDSCG YELLO	00	00	
8A	Ye. B		MDSCB YELLO	48	48	
8B	Sep. R		MDSCR SEPHIA	50	50	
8C	Sep. G		MDSCG SEPHIA	00	00	
8D	Sep. B		MDSCB SEPHIA	10	10	
8E				00	00	
8F				00	00	
90	R. I. C	R. I. C	RED INDOOR CONTROL	34	34	→ CHANGE DATA1, DATA2
91	B. I. C		BLUE INDOOR CONTROL	A0	A0	→ CHANGE DATA1, DATA2
92	R. O. C		RED OUTDOOR CONTROL	78	78	→ CHANGE DATA1, DATA2
93	B. O. C		BLUE OUTDOOR CONTROL	5B	5B	→ CHANGE DATA1, DATA2
94	R. I. M		RED INDOOR CONTROL MARGIN	03	03	→ CHANGE DATA1, DATA2
95	B. I. M		BLUE INDOOR CONTROL MARGIN	10	10	
96	R. O. M		RED OUTDOOR COTROL MARGIN	03	03	
97	B. O. M		BLUE OUTDOOR CONTROL MARGIN	10	10	→ CHANGE DATA1, DATA2
98	ROS. a		R OUTDOOR START a	86	86	
99	BOS. a		B OUTDOOR START a	86	86	→ CHANGE DATA1, DATA2
9A	R. O. G		R OUTDOOR GAIN	34	34	→ CHANGE DATA1, DATA2
9B	B. O. G		B OUTDOOR GAIN	27	27	→ CHANGE DATA1, DATA2
9C	R. O. H		R OUTDOOR HUE	3C	3C	→ CHANGE DATA1, DATA2
9D	B. O. H		B OUTDOOR HUE	3F	3F	→ CHANGE DATA1, DATA2
9E	ROG. a		R OUTDOOR GAIN a	10	10	
9F	BOG. a		B OUTDOOR GAIN a	00	00	→ CHANGE DATA1, DATA2
A0	WBTGR	WBTGR	R CONTROL TARGET	98	98	
A1	WBTGB		B CONTROL TARGET	68	68	
A2	WBTBM		WHITE BALANCE TABLE MODE	80	80	
A3	E2D-3C			14	14	→ CHANGE DATA1, DATA2
A4	-W. AE. AVR			04	04	
A5	B. CTL. BUD			55	55	
A6	B. REST OP3			10	10	
A7	B. STP. HAL			70	70	→ CHANGE DATA1, DATA2
A8				00	00	
A9				00	00	
AA				00	00	
AB				00	00	
AC				00	00	
AD				00	00	
AE				00	00	
AF				00	00	
B0	FPULL	FPULL	FOCUS DISTANCE LOW BYTE	10	10	→ CHANGE DATA1, DATA2

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
B1	FPULH		FOCUS DISTANCE HIGH BYTE	11	11	➤CHANGE DATA1, DATA2
B2	ZPULL		ZOOM DISTANCE LOW BYTE	30	30	➤CHANGE DATA1, DATA2
B3	ZPULH		ZOOM DISTANCE HIGH BYTE	12	12	➤CHANGE DATA1, DATA2
B4	ZRWDT		ZOOM PULSE DIFFERENCE	80	80	➤CHANGE DATA1, DATA2
B5	AFMID		AF2 SUB MIN.	60	60	➤CHANGE DATA1, DATA2
B6	AFMXL		AF2 SUB MAX. LOW BYTE	80	80	➤CHANGE DATA1, DATA2
B7	AFMXH		AF2 SUB MAX. HIGH BYTE	00	00	➤CHANGE DATA1, DATA2
B8	Z.T.C		ZOOM TRACK COMPENSATION	00	00	➤CHANGE DATA1, DATA2
B9	Z. RAT		ZOOM RAITIO	30	30	➤CHANGE DATA1, DATA2
BA	ZWPHR		ZOOM DEAK HOLD REFERENCE	C2	C2	➤CHANGE DATA1, DATA2
BB				19	19	➤CHANGE DATA1, DATA2
BC				00	00	➤CHANGE DATA1, DATA2
BD				00	00	
BE				00	00	
BF				00	00	

Note : "XX XX" indicates variable values.

<Example of the TV screen>

54	A.HAL	XX	XX
		Data in memory	Data to be adjusted

1-1-2 The difference between Version J43 and Version J52 of ICA01 Madk-Rom.

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
7E	HSSSH		HSS START HALL	00	00	➤ICA01 AD09-10450B MASK-ROM;UPD78214GC-J43-AB8,64P,QFP
7E	HSSSH		HSS START HALL	40	40	➤ICA01 AD11-10020D MASK-ROM;UPD78214GC-J52-AB8,64P,QFP
BA	ZWPHR		ZOOM DEAK HOLD REFERENCE	50	50	➤ICA01 AD09-10450B MASK-ROM;UPD78214GC-J43-AB8,64P,QFP
BA	ZWPHR		ZOOM DEAK HOLD REFERENCE	C2	C2	➤ICA01 AD11-10020D MASK-ROM;UPD78214GC-J52-AB8,64P,QFP

1-1-3 The difference between Zoom X14 and Zoom X16.

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
B9	Z. RAT		ZOOM RAITIO	31	31	➤X14 (VP-K60)
B9	Z. RAT		ZOOM RAITIO	30	30	➤X16 (VP-K70/VP-K75)

1-2 Initial Data (VP-K80/VP-K85)

1-2-1 Initial data change

During camera adjustment, the OSD displays the following :

Example) " 00 XXXX XX XX "

Note : "Data 1" is previous setting in memory. "Data 2" is cuarent adjustment setting (changes during adjustment mode). After pressing "START/STOP (Confirm)", it is stored in memory.

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
54	A. HAL	A. HAL	AUTO HALL ADJ.	00	00
52	A. IRE	A. IRE	AUTO IRIS ADJ.	00	00
53	A. AGC	A. AGC	AUTO AGC ADJ.	00	00
55	A. W/B	A. W/B	AUTO WHITE BALANCE ADJ.	00	00
56	A. LEN	A. LEN	AUTO ZOOM TRACK ADJ.	00	00
00	Y. GAM	Y. GAM	Y GAMMA	88	88
01				FF	FF
02	IRE. R	IRE. R	IRIS CONTROL	A0	A0
03	AGC. 1	AGC. 1	AGC CONTROL 1.	40	40
04	AGC. 2	AGC. 2	AGC CONTROL 2.	00	00
05				FF	FF
06	HAL. G	HAL. G	HALL GAIN CONTROL	6F	6F
07	P. H. R	P. H. R	PEAK HOLD REFERENCE	00	00
08				FF	FF
09	HAL. R	HAL. R	HALL REF. CONTROL	82	82
0A				00	00
0B	BST	BST	DSP STATUS REG.	00	00
0C	DADR	DADR	RAM ADDRESS REG.	00	00
0D	DMDL	DMDL	RAM DATA LOW BYTE	00	00
0E	DMDH	DMDH	RAM DATA HIGH BYTE	00	00
0F	DCMD	DCMD	DM COMMAND REG.	04	04
10	DDIS	DDIS	DIS COMMAND	00	00
11	COV1	COV1	AUTO KNEE COEF. 1	00	00
12	COV2	COV2	AUTO KNEE COEF. 2	68	68
13	CAG	CAG	APERTURE GAIN CONTROL	C0	C0
14	CCOA	CCOA	COLOR SEPERATION COEF. 1	21	21
15	CCOB	CCOB	COLOR SEPERATION COEF. 2	33	33
16	CAKP	CAKP	AUTO KNEE POINT	D0	D0
17	CNSL	CNSL	NOISE SLICE LEVEL	02	02
18	CAPS	CAPS	EDGE CHROMA GAIN	04	04
19	CRCO	CRCO	CCR GAIN	38	38
1A	CBCO	CBCO	CCB GAIN	38	38
1B	CGCO	CGCO	YL GAIN	80	80
1C	CUTH	CUTH	S/I LOW THRESHOLD	0B	0B
1D	CLTH	CLTH	S/I HIGH THRESHOLD	0B	0B
1E	MRPW	MRPW	R PRE-WHITE BALANCE	48	48
1F	MGPW	MGPW	G PRE-WHITE BALANCE	20	20
20	MBPW	MBPW	B PRE-WHITE BALANCE	50	50
21	MRWB	MRWB	R WHITE BALANCE	36	36
22	MBWB	MBWB	B WHITE BALANCE	70	70
23	MDSCR	MDSCR	DARK SLICE R	04	04
24	MDSCB	MDSCB	DARK SLICE B	FE	FE
25	MDSCG	MDSCG	DARK SLICE G	FA	FA
26	MRHC	MRHC	R-Y HUE	2A	2A
27	MBHC	MBHC	B-Y HUE	00	00
28	MRYG	MRYG	R-Y GAIN	3B	3B
29	MRBG	MRBG	B-Y GAIN	25	25
2A	MA1C	MA1C	MATRIX COEF. A1	B3	B3

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
2B	MB1C	MB1C	MATRIX COEF. B1	4D	4D	
2C	MA2C	MA2C	MATRIX COEF. A2	1C	1C	
2D	MB2C	MB2C	MATRIX COEF. B2	E4	E4	
2E	SCMD	SCMD		01	01	→ ADD
2F	SCOL	SCOL		00	00	→ ADD
30	SDAT	SDAT		00	00	→ ADD
31	SPG	SPG		00	00	→ ADD
41	STH	STH		08	08	→ ADD
42	STV	STV		08	08	→ ADD
43	SSYN	SSYN		10	10	→ ADD
44	SVRT	SVRT		0B	0B	→ ADD
45	EHSBY	EHSBY	B-Y BURST CARRIER GAIN	DC	DC	
46	EHSRY	EHSRY	R-Y BURST CARRIER GAIN	25	25	
47	ECFAD	ECFAD	CHROMA FADE CONTROL	40	40	
48	EWCLP	EWCLP	WHITE CLIP LEVEL	F0	F0	
49	EYFAD	EYFAD	Y FADE CONTROL	80	80	
4A	SETUP	SETUP	Y SETUP LEVEL 1	00	00	
4B	EBLKL	EBLKL	Y SETUP LEVEL 2	00	00	
4C	ECMD0	ECMD0	ENCORDER COMMAND 1	A0	A0	
4D	ECMD1	ECMD1	ENCORDER COMMAND 2	04	04	
4E	TCMD0	TCMD0	TIMING GEN. COMMAND 1	00	00	
4F	TCMD1	TCMD1	TIMING GEN. COMMAND 2	00	00	
50				FF	FF	
51				FF	FF	
52	A. IRE		AUTO IRIS ADJ.	00	00	
53	A. AGC		AUTO AGC ADJ.	00	00	
54	A. HAL		AUTO HALL ADJ.	00	00	
55	A. W/B		AUTO WHITE BALANCE ADJ.	00	00	
56	A. LEN		AUTO ZOOM TRACK ADJ.	00	00	
57				00	00	
58				00	00	
59				00	00	
5A				00	00	
5B				00	00	
5C				NO USE	HALL DATA	
5D				00	00	
5E				00	00	
5F				00	00	
60	INITIAL			00	00	
61	H. G. S	H. G. S	HALL GAIN START VALUE	76	76	
62	I. R. S		IRIS REF. START	80	80	
63	A. M. S		AGC MAX. START	B8	B8	
64				70	70	
65	R. I. S		INDOOR R START	38	38	
66	B. I. S		INDOOR B START	68	68	
67	R. O. S		OUTDOOR R START	4E	4E	
68	B. O. S		OUTDOOR B START	45	45	
69	A. TGT		IRIS TARGET	68	68	
6A	A. T. %		AGC TARGET AEAVR %	30	30	
6B				00	00	
6C				00	00	
6D				00	00	
6E				00	00	
6F				00	00	
70	H. MIN	H. MIN	HALL MIN. VALUE	19	19	
71	H. MAX		HALL MAX. VALUE	EF	EF	
72	A. S. %		AGC START HALL %	C5	C5	
73	A. S. H		AGC START HALL	BD	BD	
74				FF	FF	→ CHANGE DATA1, DATA2
75				FF	FF	→ CHANGE DATA1, DATA2

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	
76				FF	FF	→ CHANGE DATA1, DATA2
77				FF	FF	→ CHANGE DATA1, DATA2
78	A. MIN		AGC MIN.	50	50	
79	A. MAX		AGC MAX.	BF	BF	
7A	CFMIN		C FADE MINIMUM	08	08	
7B	CFS. A		C FADE START AGC	80	80	
7C	NSAGC		NOISE SLICE AGC	72	72	
7D	BLCON		BLC ON	2A	2A	
7E	HSSSH		HSS START HALL	50	50	
7F				10	10	→ CHANGE DATA1, DATA2
80				FF	FF	→ CHANGE DATA1, DATA2
81				FF	FF	→ CHANGE DATA1, DATA2
82				FF	FF	→ CHANGE DATA1, DATA2
83				95	95	
84				FF	FF	
85	ASAE%			B0	B0	→ CHANGE DATA1, DATA2
86	YBLSA		EYBLK START AGC	A0	A0	
87	YBLKM		EYBLK MAX	00	00	
88	Ye. R		MDSCR YELLO	60	60	
89	Ye. G		MDSCG YELLO	00	00	
8A	Ye. B		MDSCB YELLO	48	48	
8B	Sep. R		MDSCR SEPHIA	50	50	
8C	Sep. G		MDSCG SEPHIA	00	00	
8D	Sep. B		MDSCB SEPHIA	10	10	
8E				FF	FF	
8F				FF	FF	
90	R. I. C	R. I. C	RED INDOOR CONTROL	31	31	
91	B. I. C		BLUE INDOOR CONTROL	62	62	→ CHANGE DATA1, DATA2
92	R. O. C		RED OUTDOOR CONTROL	6C	6C	→ CHANGE DATA1, DATA2
93	B. O. C		BLUE OUTDOOR CONTROL	3E	3E	→ CHANGE DATA1, DATA2
94	R. I. M		RED INDOOR CONTROL MARGIN	03	03	→ CHANGE DATA1, DATA2
95	B. I. M		BLUE INDOOR CONTROL MARGIN	04	04	→ CHANGE DATA1, DATA2
96	R. O. M		RED OUTDOOR COTROL MARGIN	00	00	
97	B. O. M		BLUE OUTDOOR CONTROL MARGIN	0A	0A	
98	ROS. a		R OUTDOOR START a	82	82	
99	BOS. a		B OUTDOOR START a	86	86	
9A	R. O. G		R OUTDOOR GAIN	2F	2F	→ CHANGE DATA1, DATA2
9B	B. O. G		B OUTDOOR GAIN	27	27	→ CHANGE DATA1, DATA2
9C	R. O. H		R OUTDOOR HUE	3C	3C	
9D	B. O. H		B OUTDOOR HUE	2A	2A	→ CHANGE DATA1, DATA2
9E	ROG. a		R OUTDOOR GAIN a	0A	0A	
9F	BOG. a		B OUTDOOR GAIN a	00	00	
A0	WBT GR	WBTGR	R CONTROL TARGET	98	98	
A1	WBT GB		B CONTROL TARGET	68	68	
A2	WBT BM		WHITE BALANCE TABLE MODE	80	80	
A3	E2D-3C			00	00	
A4	-W. AE. AVR			02	02	
A5	B. CTL. BUD			1A	1A	→ CHANGE DATA1, DATA2
A6	B. RESTOP3			90	90	
A7	B. STP. HAL			65	65	→ CHANGE DATA1, DATA2
A8				00	00	
A9				00	00	
AA				00	00	
AB				40	40	→ CHANGE DATA1, DATA2
AC				00	00	
AD				00	00	
AE				00	00	
AF				00	00	
B0	FPULL	FPULL	FOCUS DISTANCE LOW BYTE	EC	EC	→ CHANGE DATA1, DATA2
B1	FPULH		FOCUS DISTANCE HIGH BYTE	10	10	→ CHANGE DATA1, DATA2

MODE	NAME	OSD	NAME OF ADJUSTMENT	DATA1	DATA2
B2	ZPULL		ZOOM DISTANCE LOW BYTE	31	31
B3	ZPULH		ZOOM DISTANCE HIGH BYTE	12	12
B4	ZRWDT		ZOOM PULSE DIFFERENCE	8C	8C
B5	AFMID		AF2 SUB MIN.	60	60
B6	AFMXL		AF2 SUB MAX. LOW BYTE	80	80
B7	AFMXH		AF2 SUB MAX. HIGH BYTE	00	00
B8	Z. T. C		ZOOM TRACK COMPENSATION	00	00
B9	Z. RAT		ZOOM RAITIO	78	78
BA	ZWPHR		ZOOM DEAK HOLD REFERENCE	50	50
BB				14	14
BC				00	00
BD				00	00
BE				00	00
BF				00	00

B2: CHANGE DATA1, DATA2

B4: CHANGE DATA1, DATA2

Note : "XX XX" indicates variable values.

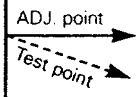
<Example of the TV screen>

54	A.HAL	XX	XX
		Data in memory	Data to be adjusted

1-2 CVF Adjustment (VP-K75/VP-K85)

Note : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	



Note : See page 1-3 for the location of test points and adjustments.

1. 13.5V Voltage

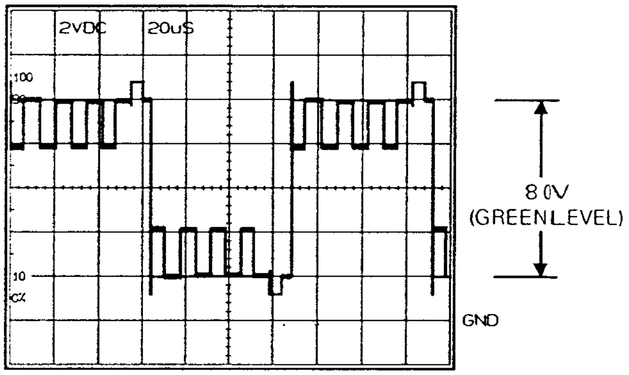
1) VCR "PB", Alignment tape (Color bar : SP).
2) TP1 and VRE04.
3) Connect digital voltmeter probe to TP1.
4) Adjust VRE04 so that the voltage is DC 13.5V ± 0.1V.

2. LCCOM Voltage

1) VCR "PB", Alignment tape (Color bar : SP).
2) TP2 and VRE05.
3) Connect digital voltmeter probe to TP5.
4) Adjust VRE05 so that the voltage is DC 5.6V ± 0.1V.

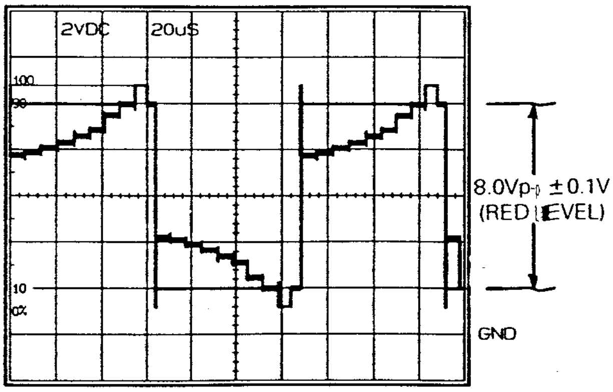
3. Brightness

1) Color bar signal which is Chroma off.
2) TP5 (G OUT) and VRE01.
3) Connect on oscilloscope probe to TP5 (G OUT).
4) Adjust VRE01 so that green level is 8.0V.



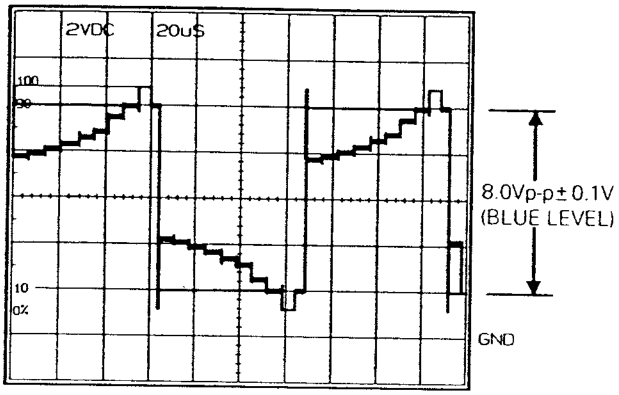
4. R-Sub Bright

1) Color bar signal which is Chroma off.
2) TP4 (R OUT) and VRE01.
3) Connect on oscilloscope probe to TP4 (R OUT).
4) Adjust VRE06 so that red level is 8.0Vp-p.



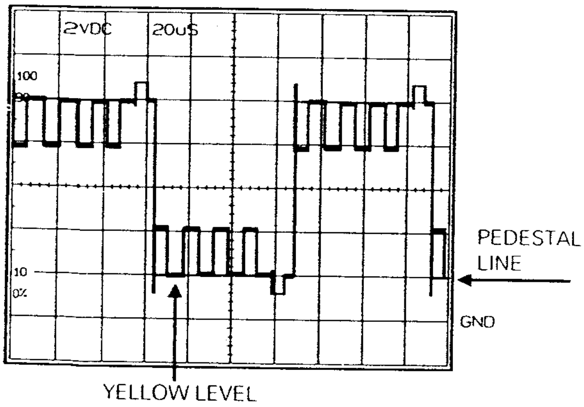
5. B-Sub Bright

1) Color bar signal which is Chroma off.
2) TP3 (B OUT) and VRE07.
3) Connect on oscilloscope probe to TP3 (B OUT).
4) Adjust VRE07 so that blue level is 8.0Vp-p.



6. Color

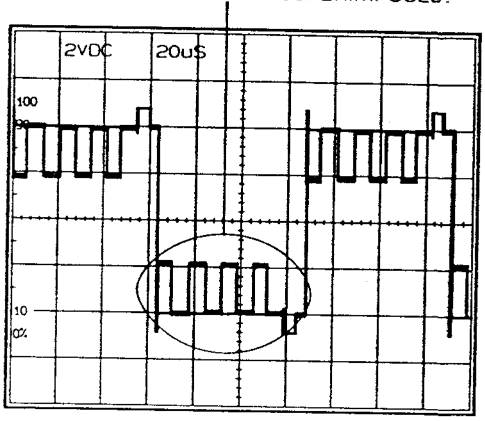
1) VCR "PB", Alignment tape (Color bar : SP).
2) TP3 and VRE02.
3) Connect on oscilloscope probe to TP3.
4) Adjust VRE02 so that yellow level is equal to the pedestal line.



7. HUE

1) VCR "PB", Alignment tape (Color bar : SP).
2) TP3 and VRE03.
3) Connect on oscilloscope probe to TP3.
4) Adjust VRE03 so that dual waveforms are superimposed.

DUAL WAVEFORMS ARE SUPERIMPOSED.

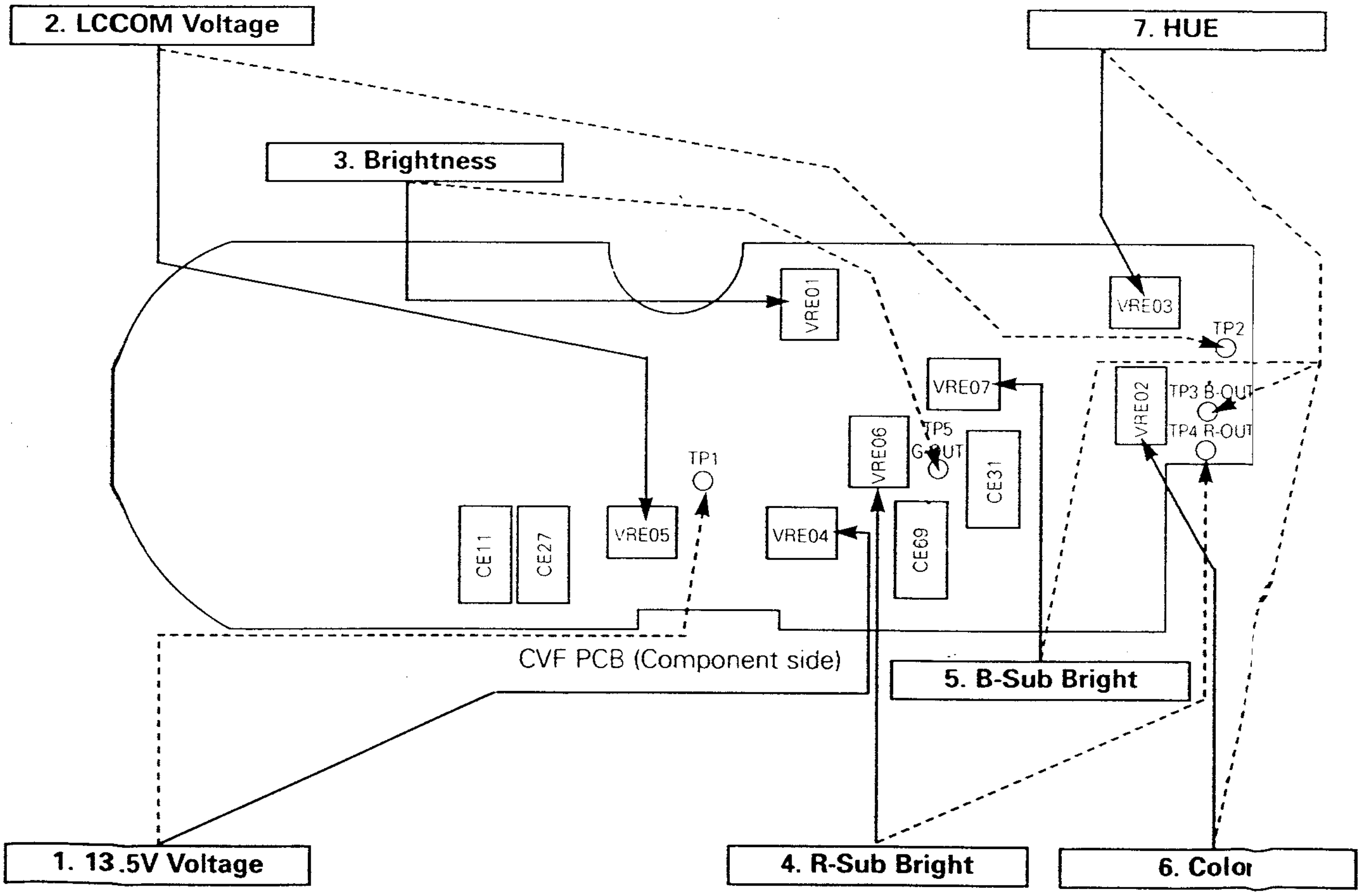


◆ Test point and adjustment points :

Adj. No.	Adjustment name	Test point	Adjustment point
1	13.5V Voltage	TP1	VRE04
2	LCCOM Voltage	TP2	VRE05
3	Brightness	TP5 (G OUT)	VRE01
4	R-Sub Bright	TP4 (R OUT)	VRE06
5	B-Sub Bright	TP3 (B OUT)	VRE07
6	Color	TP3	VRE02
7	HUE	TP3	VRE03

Test point - - - - - - - - ▶

ADJ point ————▶


2. LCCOM Voltage
7. HUE
3. Brightness
VRE01
VRE03
TP2
VRE07
VRE02
TP3 B-OUT
TP4 R-OUT
TP5
G-OUT
VRE06
CE31
TP1
VRE05
VRE04
CE69
CE11
CE27
CVF PCB (Component side)
5. B-Sub Bright
1. 13.5V Voltage
4. R-Sub Bright
6. Color

Memo

2. Cabinet Exploded View and Parts List

Page

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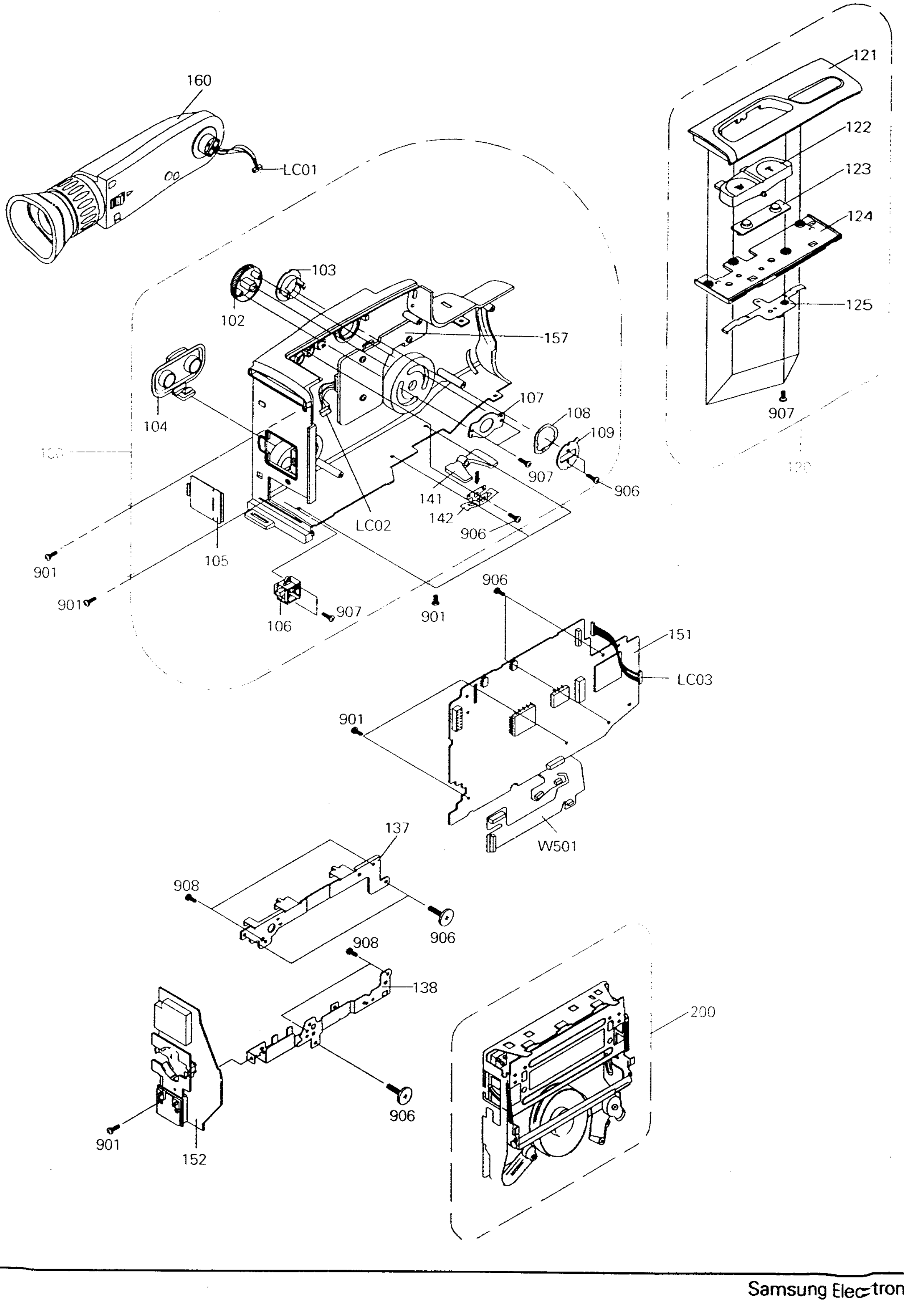
2-3 VP-K80/K85 Cabinet Assembly (1) ----------- 2-6

2-2 VP-K80/K85 Cabinet Assembly (2) ----------- 2-8

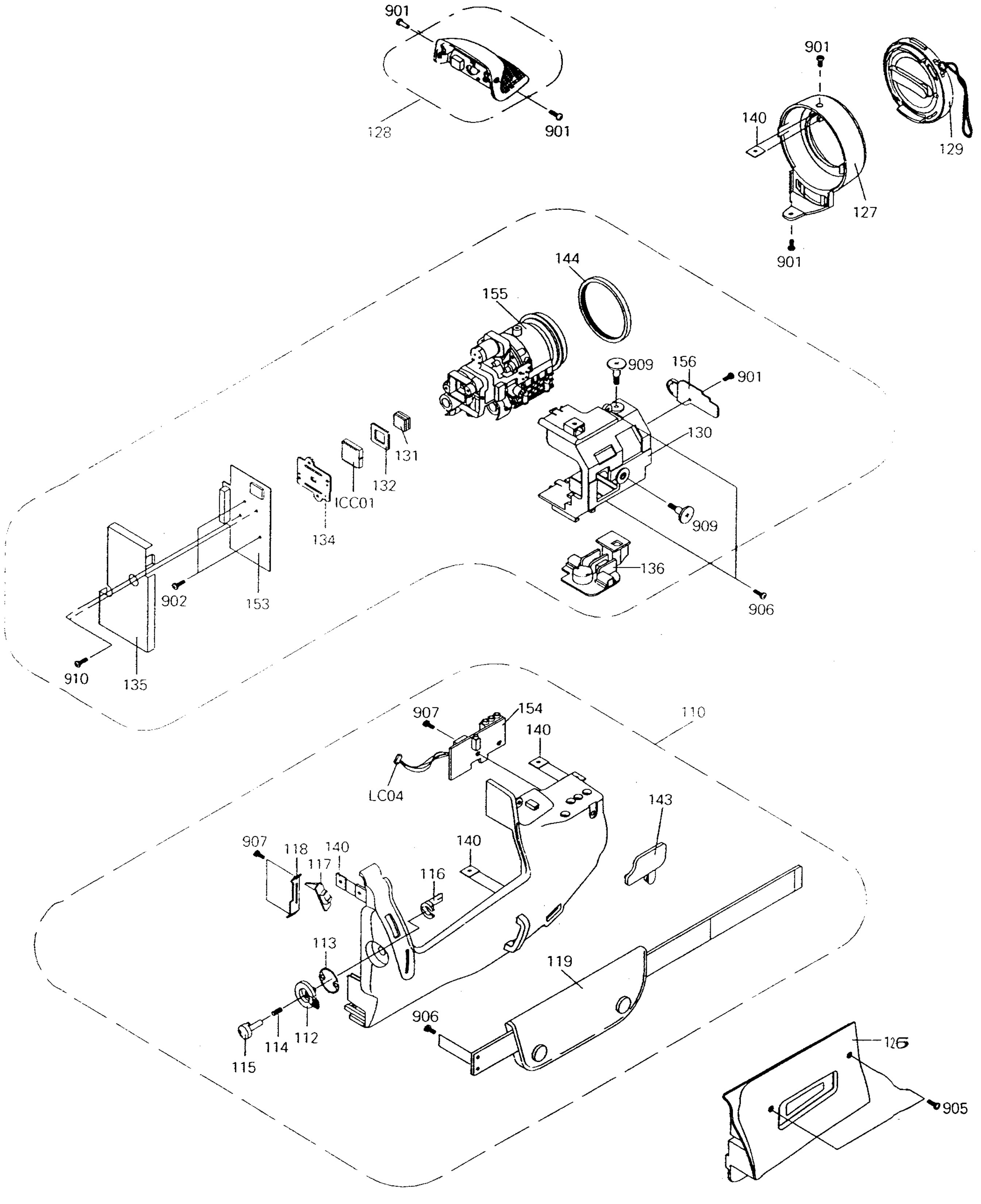
2-1 VP-K60/K70/K75 Cabinet Assembly (1)


160
LC01
103
102
157
104
100
107
108
109
907
906
141
142
LC02
906
105
901
901
106
907
901
906
121
122
123
124
125
907
120
151
LC03
901
W501
137
908
906
908
138
200
906
901
152

Loc. No	New Part No	Description and Specification	Old Part No
100	AD98-11202A	ASSY-CASE LEFT;VP-K60/SEG	-
	AD98-11202J	ASSY-CASE LEFT;VP-K60/SECO	-
	AD98-11202G	ASSY-CASE LEFT;VP-K60 **(ONLY BUYER WHICH USE ENGLISH)**	-
	AD98-11202H	ASSY-CASE LEFT;VP-K60/SEF	-
	AC98-10012A	ASSY-CASE LEFT;VP-K70/SEG	-
	AD98-11201A	ASSY-CASE LEFT;VP-K70/SECO	-
	AD98-10999V	ASSY-CASE LEFT;VP-K70 **(ONLY BUYER WHICH USE ENGLISH)**	-
	AD98-10999Y	ASSY-CASE LEFT;VP-K70/SEF	-
	AD98-11202F	ASSY-CASE LEFT;VP-K70/SEMO	-
	AD98-10999N	ASSY-CASE LEFT;VP-K75/SEG	-
	AD98-10999X	ASSY-CASE LEFT;VP-K75**(ONLY BUYER WHICH USE ENGLISH)**	-
	AD98-10999Z	ASSY-CASE LEFT;VP-K75/SEF	-
	AD98-11201S	ASSY-CASE LEFT;VP-K75/SEMO	-
102	AC59-90001Q	UNIT-KNOB ROTARY;VP-K70,-,-	67173-0224-00
103	AC61-20013A	SLIDER-RING ROTATE EVF;POM T1 BLK(VN-E405)	61644-0020-00
104	AC64-50068A	DOOR-A/V JACK;PE,-,T 1.5,-,BLK,-,VP-K70,-	64044-0263-00
105	AC63-30040A	COVER-LI BATTERY;PP,HB,T1.5,BLK,H3.5,-,VN-U12,-	63314-0123-00
106	AC59-90001L	UNIT-BATTERY EJECT;VP-K70,-,-	67173-0220-00
107	AC61-10121A	BRACKET-ROTARY;SUS 304,-,T 0.8,-,-,VP-K70,-	63014-0272-00
108	AC61-32037A	PLATE-SPRING EVF;C1720S,T0.4,-,VN-E405,-	60104-0028-00
109	AC61-10135A	BRACKET-EVF;SUS 304,-,T 0.8,-,-,VP-K70,-	63014-0299-00
120	AC98-10012C	ASSY-CASE TOP;VP-K70/SEG,-	69063-215-022
121	AC64-30067A	CASE-TOP;ABS 94,HB,T 1.5,-,BLK,-,VP-K70	62032-0244-00
122	AC64-10127A	BUTTON-T/W;ABS 94,HB,BLK,-,VP-K70,-	64083-0696-00
123	AC64-10183A	KNOB-RUBBER-T/W;SILICON,-,BLK,-,VP-K70,-	63394-0106-00
124	AC61-40068A	SUPPORT-CASE TOP;POM 94,HB,T 1.0,BLK,VP-K70,-,-	63073-0036-00
125	AC66-82057A	LINK-CASE TOP;-,SUS304,T0.3 L66,-	61553-0016-00
137	AC61-10070A	BRACKET-DECK A;SUS 304,-,T 0.5,-,-,VP-K70,-	63013-0274-00
138	AC61-10071A	BRACKET-DECK B;SUS 304,-,T 0.5,-,-,VP-K70,-	63013-0275-00
141	AC66-30043A	LEVER-T/W;POM 94,-,-,BLK,VP-K70,-	61534-0137-00
142	AC61-60037A	SPRING-T/W;PS,SUS 301,T 0.2,-,-,VP-K70,-	62724-0299-00
151	AC90-10009Z	ASSY-MAIN BOARD;VP-K70,-	69063-214-941
152	AC90-10009X	ASSY-DC/DC BOARD;S8C-PAL,VP-K70 (DC/DC)	69063-214-939
157	AC90-10009Y	ASSY-FUNCTION BOARD;S8C-PAL VP-K70,(FUNCTION)	69063-214-940
160	AC99-10060E	ASSY-EVF;VP-K60/K70	*EE-K70-EXP
	AC99-10059N	ASSY-CVF;VP-K75	*EE-VP-K75
200	AC96-10013V	ASSY-DECK 8MM;DE-6PN,-	DE-6PN
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
908	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	67094-117-350
LC01	AC39-20004R	LEAD-CONNECTOR ASS'Y;90MM,51021,1.25MM,51021,1061#	66439-0111-00
LC02	AD39-20820A	LEAD-CONNECTOR-ASSY;TP,51021,51021,8P,110MM,1571#2	-
LC03	AC39-20004Q	LEAD-CONNECTOR ASS'Y;65MM,51021,1.25MM,51021,1061#	66439-0110-00
W501	AC90-10012X	ASSY-FPC;DE-6,-	69063-215-091

Buyer which use English : SEUK(SESC), SEAU, SSA, SESAB, SEP, SEI, SEH, SGE(SGSC), SAP(SAPL), AMFO, DIN(DINDAR CON), ATR(AUTORNIN AG), EAP, EDIS, EGT(EL-THOLATHIA), EIS(EISENBURG), ELE(ELEKTRONIX), ERG(EUROELECTRIC), ERGO(ERGOSTARS), EUR(EUROPARTADE), SPSC, HACO, NSI, RIEDER+PARTNER, SIMPLEX, TAWIL

2-2 VP-K60/K70/K80 Cabinet Assembly (2)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128
901
901
140
129
127
901
144
155
909
156
901
130
131
132
ICC01
134
909
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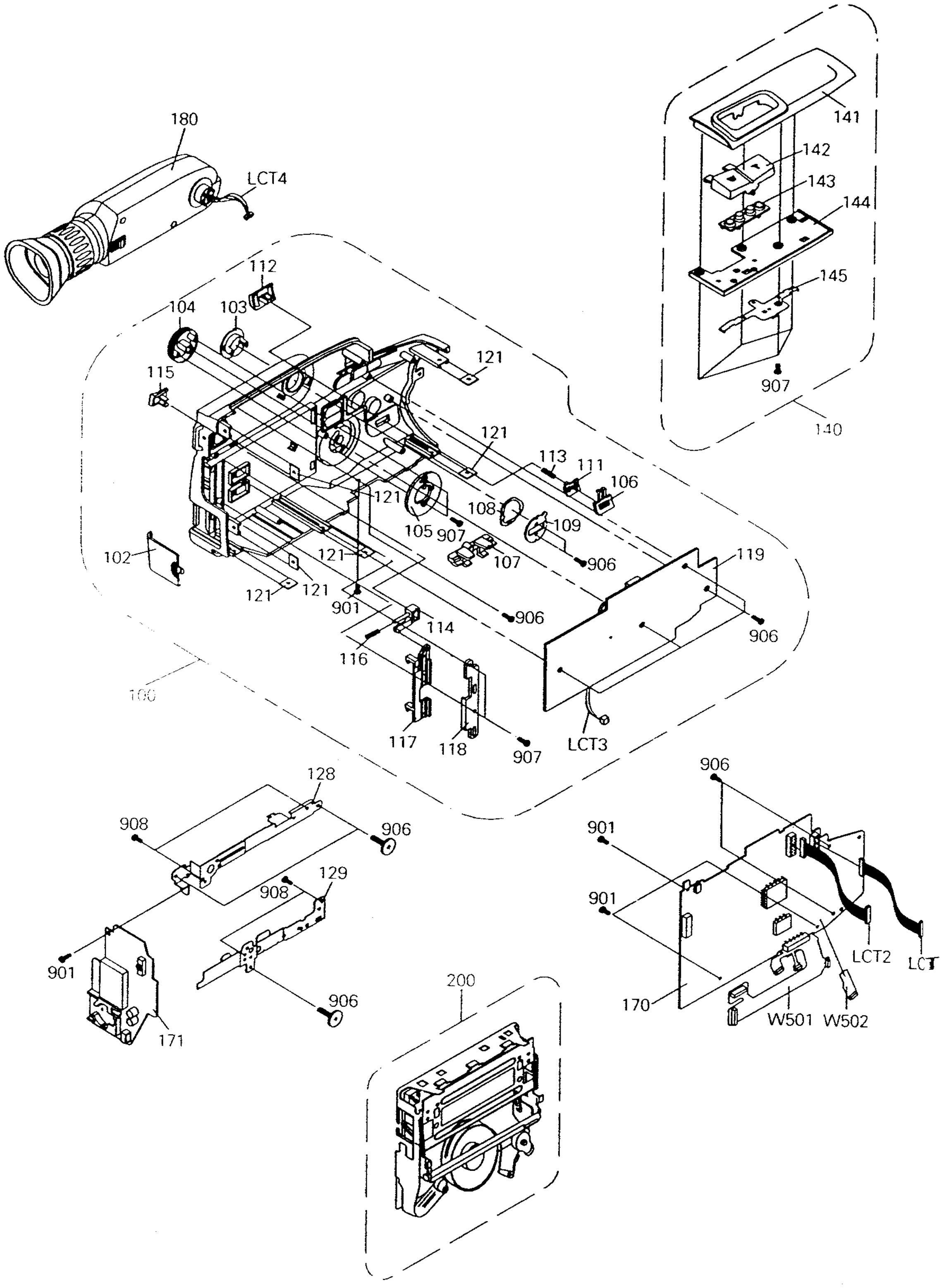
902
153
910
135
907
154
140
110
LC04
143
907
118
140
117
140
116
113
119
906
112
114
115
126
905

Loc. No	New Part No	Description and Specification	Old Part No
110	AD98-11202N	ASSY-CASE RIGHT;-,ABS94,HB,T0.15,VP-K60	-
	AC98-10012B	ASSY-CASE RIGHT;VP-K70	-
	AD98-11202X	ASSY-CASE RIGHT;VP-K75	-
112	AC64-22136A	KNOB-REC START/STOP;ABS94,HB,-,BLK,-,VN-U12,-	64084-0458-00
113	AC61-62013A	SPRING-PLATE START/S;PS,STS301,T0.2,OD16,-,(VN-U1,	62724-0181-00
114	AC61-60068A	SPRING-BUTTON;CS,STS304 WPB,P0.2,D4,L7,-,-	62724-0093-00
115	AC64-10148A	BUTTON-REC;ABS 94,HB,RED,-,VP-K70,-	64084-0695-00
116	AC61-20157A	HOLDER-REC/STOP;NYLON,BLK,-,VP-K70,-	63323-0449-00
117	AC64-10150A	KNOB-TAPE EJECT;ABS 94,HB,BLK,-,VP-K70,-	64084-0700-00
118	AC61-10125A	BRACET-TAPE EJECT;SECC,-,T 0.8,-,-,VP-K70,-	63014-0279-00
119	AC63-10007A	GRIP;LEATHER,BLK,T1.5,-,SV-H66,-,-	67179-0211-00
126	AD59-10301A	UNIT-COVER HOUSING;VP-K70/SEG,-	-
127	AC67-10038A	LENS-HOOD;-,PC 94,V 0,-,-,VP-K70,-	62713-0111-00
128	AC98-10012D	ASSY-MIC;VP-K70/SEG,-	69063-215-024
129	AD59-10328A	UNIT-CAP HOOD;VP-K80,-	-
130	AC59-90001N	UNIT-FRAME;VP-K70,-,-	67173-0222-00
131	AC29-92002D	FILTER-OLP;SV-3C01MM,KSS,-,-	B1254-0008
132	AC63-62007A	SPACER-CCD;SILICON,-,BLK,-,VP-K70,-	63304-0027-00
134	AC61-10122A	BRACKET-CCD;A 5052,-,T 1.5,-,-,VP-K70,-	63014-0273-00
135	AC63-40038A	SHIELD-CASE CCD;SPTE,T 0.25,-,VP-K70,-	62074-0315-00
136	AD59-90001H	UNIT-HOLDER TRIPOD;-,VP-K70,-	67173-0229-00
140	AC61-20223A	HOLDER-LOCK;SECC,T1.0,NAT,-,-,-	63324-0292-00
143	AC61-20061A	CAP-LIGHT;TPR,T1.2,HB,BLK,-,VP-K70,-	63313-0220-00
144	AC64-10174A	KNOB-RUBBER-FRONT;NBR,-,BLK,-,VP-K70,-	63394-0107-00
153	AC90-10010L	ASSY-CCD BOARD;VP-K70 PAL,-	69063-214-968
154	AC90-10012E	ASSY-LIGHT BOARD;S8C VP-K70,-	69063-215-047
155	AC90-10012C	ASSY-LENS ZOOM;SEC 14X D28,-	69063-215-045
156	AC90-10013H	ASSY-MF B'D;VP-K70 PAL,-	69063-215-134
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
902	AC60-10024A	SCREW-MACHINE;BH,+,M2,X3,FZW,FE,-,-,-	67094-604-310
905	AD60-10001A	SCREW-MACHINE;BH,B,1.7*5.5,-,FE,BLACK,-,VP-K	60504-0113-01
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
909	AC60-12128A	SCREW-TAP TITE BH;-,BH,4 1.7,L4,-,FE,BLK	60509-0129-00
910	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	67128-521-206
ICC01	0605-000110	CCD;COLOR,DIP,14P,400MIL,32K,7.3*4	B4014-0053
LC04	AC39-20003C	LEAD-CONNECTOR ASS'Y;87MM,51021,-,51021,1571#28,3P	66439-0066-00

2-3 VP-K80/K85 Cabinet Assembly (1)



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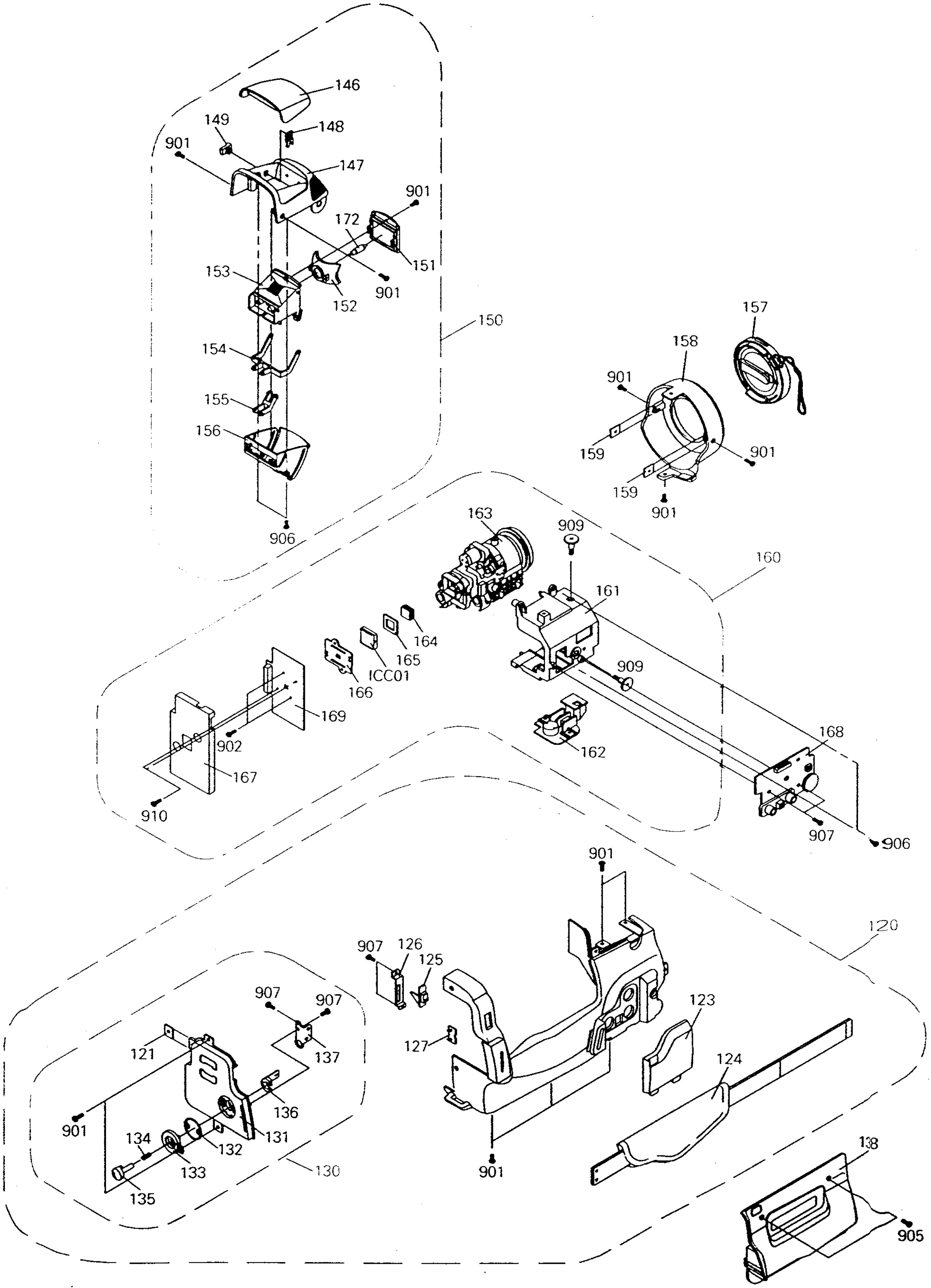
Loc. No	New Part No	Description and Specification	Old Part No
100	AD98-11201D	ASSY-CASE LEFT;VP-K80/SEG,VP-K80/SEMO	-
	AD98-11203A	ASSY-CASE LEFT;VP-K80/SECO	-
	AD98-11202Y	ASSY-CASE LEFT;VP-K80 **(ONLY BUYER WHICH USE ENGLISH)**	-
	AD98-11202Z	ASSY-CASE LEFT;VP-K80/SEF	-
	AD98-11202K	ASSY-CASE LEFT;VP-K85/SEG, VP-K85/SEMO	-
	AD98-11203D	ASSY-CASE LEFT;VP-K85/SECO	-
	AD98-11203B	ASSY-CASE LEFT;VP-K85 **(ONLY BUYER WHICH USE ENGLISH)**	-
	AD98-11203C	ASSY-CASE LEFT;VP-K85/SEF	-
102	AD63-30004A	COVER-LI BATTERY;ABS 94,HB,-,BLACK,-,-,-,VP-K80	63313-0247-00
103	AC61-20013A	SLIDER-RING ROTATE EVF;POM T1 BLK(VN-E405)	61644-0020-00
104	AD64-10024A	KNOB-ROTARY;ABS 94,HB,-,BLACK,VP-K80,-	64083-0769-00
105	AD61-20022A	HOLDER-ROTARY;POM 94,HB,-,BLACK,VP-K80,-	63323-0529-00
106	AD66-30004A	LEVER-POWER;POM 94,HB,T1.0,-,-,-	61534-0171-00
107	AD66-30006A	LEVER-T/W;POM 94,HB,T2.7,BLACK,-,-	61533-0174-00
108	AC61-32037A	PLATE-SPRING EVF;C1720S,T0.4,-,VN-E405,-	60104-0028-00
109	AC61-40056A	STOPPER-EVF;SUS304,-,T0.8,WHT,-,-	63384-0025-00
111	AD61-20019A	HOLDER-POWER;POM 94,HB,-,RED,VP-K80,-	63324-0526-00
112	AD64-10008A	BUTTON-POWER;ABS 94,HB,-,BLACK,VP-K80,-	64084-0761-00
113	66674-641-610	SPRING-KNOB POWER;SUS304 WPB	-
114	AD66-30001A	LEVER-BATTERY;ABS 94,HB,T1.2,BLACK,-,-	61534-0172-00
115	AD64-10003A	BUTTON-EJECT BATTERY;POM 94,V0,-,BLACK,VP-K80,-	64084-0766-00
116	66674-641-710	SPRING-LOCK BATTERY;SUS304 WPB	-
117	AD61-20005A	HOLDER-EJECT BATTERY;ABS 94,HB,-,BLACK,-,-	63323-0530-00
118	AD61-50004A	GUIDE-EJECT BATTERY;ABS 94,HB,-,BLACK,-,VP-K80,-	63354-0117-00
119	AC90-10017F	ASSY-FUNCTION BOARD;VP-K80,-	69063-215-161
121	AC61-20223A	HOLDER-LOCK;SECC,T1.0,NAT,-,-,-	63324-0292-00
128	AD61-10005A	BRACKET-DECK A;SUS,-,T0.5,WHITE,-,VP-K80,-	63013-0314-00
129	AD61-10006A	BRACKET-DECK B;SUS,-,T0.5,WHITE,-,VP-K80,-	63013-0315-00
140	AD98-11201F	ASSY-CASE TOP;VP-K80/SEG,-	-
141	AD64-30028A	CASE-TOP;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0277-00
142	AD64-10013A	BUTTON-T/W;ABS 94,HB,-,BLACK,VP-K80,-	64083-0758-00
143	AD64-10033A	KNOB-T/W;SILICON,-,-,BLACK,-,-	63394-0127-00
144	AD61-40004A	SUPPORTER-CASE TOP;POM 94,HB,-,BLACK,VP-K80,-,-	63073-0043-00
145	AC66-82057A	LINK-CASE TOP;-,SUS304,T0.3 L66,-	61553-0016-00
170	AC90-10017E	ASSY-MAIN BOARD;VP-K80,-	69063-215-162
171	AC90-10017G	ASSY-DC/DC BOARD;VP-K80,-	69063-215-160
180	AD90-10800D	ASSY-EVF;VP-K80,S8C PAL	-
	AD90-10800E	ASSY-CVF;VP-K85,S8C PAL	-
200	AC96-10013V	ASSY-DECK 8MM;DE-6PN,-	DE-6PN
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
908	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	67094-117-350
LCT1	AD39-20819A	LEAD CONNECTOR-ASSY;-,51021,51021,6P,70MM,1571#28	-
LCT2	AC39-20004U	LEAD-CONNECTOR ASS'Y;110MM,-,1.25MM,51021,1571#28,	66439-0114-00
LCT3	AD39-20822A	LEAD CONNECTOR-ASSY;-,PHR-2,PHR-2,2P,130MM,1007#26	-
LCT4	AC39-20004R	LEAD-CONNECTOR ASS'Y;90MM,51021,1.25MM,51021,1061#	66439-0111-00
W501	AC90-10012X	ASSY-FPC;DE-6,-	69063-215-091
W502	AC90-10012Y	ASSY-FPC;PRE AMP,-	69063-215-092

Buyer which use English : SEUK(SESC), SEAU, SSA, SESAB, SEP, SEI, SEH, SGE(SGSC), SAP(SAPL), AMFO, DIN(DINDAR CON), ATR(AUTORNIN AG), EAP, EDIS, EGT(EL-THOLATHIA), EIS(EISENBURG), ELE(ELEKTRONIX), ERG(EUROELECTRIC), ERGO(ERGOSTARS), EUR(EUROPARTADE), SPSC, HACO, NSI, RIEDER+PARTNER, SIMPLEX, TAWIL

2-4 VP-K80/K85 Cabinet Assembly (2)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Loc. No	New Part No	Description and Specification	Old Part No
120	AD98-12001C	ASSY-CASE RIGHT;VP-K80/SEG,-	-
	AD98-11204H	ASSY-CASE RIGHT;VP-K80/SEMO **(RUSIA ONLY)**	-
	AD98-12001K	ASSY-CASE RIGHT;VP-K85/SEG,-	-
	AD98-11204J	ASSY-CASERIGHT;VP-K85/SEMO **(RUSIA ONLY)**	-
121	AC61-20223A	HOLDER-LOCK;SECC,T1.0,NAT,-,-,-	63324-0292-00
123	AD64-50001A	DOOR-A/V JACK;PE,-,T1.0,BLACK,-,-,-,VP-K80	64043-0287-00
124	AC63-10007A	GRIP;LEATHER,BLK,T1.5,-,SV-H66,-,-	67179-0211-00
125	AD64-10026A	KNOB-TAPE EJECT;ABS 94,HB,-,BLACK,VP-K80,-	64084-0767-00
126	AD61-10012A	BRACKET-TAPE EJECT;SECC,-,T0.8,WHITE,-,VN-F35,-	63014-0313-00
127	AC61-20251A	HOLDER-GRIP;PBT,-,BLK,-,VP-K70,-	63324-0450-00
130	AD98-11201E	ASSY-CASE BACK;VP-K80/SEG,-	-
131	AD64-30001A	CASE-BACK;ABS 94,HB,-,BLACK,-,-,-,VP-K80	62032-0278-00
132	AC61-62013A	SPRING-PLATE START/S;PS,STS301,T0.2,OD16,-,(VN-U1,	62724-0181-00
133	AD64-10021A	KNOB-REC START/STOP;ABS 94,HB,-,BLACK,VP-K80,-	64083-0771-00
134	AD61-60521A	SPRING-REC;-,TS,SWPB,0.25,4.3,-,SC-80	-
135	AD64-10009A	BUTTON-REC START;ABS 94,HB,-,RED,VP-K80,-	64084-0765-00
136	AD61-20021A	HOLDER-REC START/ST;POM 94,HB,-,BLACK,VP-K80,-	63323-0528-00
137	AD61-10004A	BRACKET-BACK;SECC,-,T0.8,WHITE,-,VP-K80,-	63014-0316-00
138	AD59-10310A	UNIT-COVER HOUSING;VP-K80/SEG,-	-
146	AD63-30006A	COVER-LIGHT;PC 94,HB,T1.2,CLR,-,-,-,VP-K80	63313-0250-00
147	AD59-10314A	UNIT-CASE FRONT;VP-K80/SEG,MIC ASSY	-
148	AD66-30002A	LEVER-EJECT;POM 94,HB,-,BLACK,-,-	61534-0173-00
149	AD64-10004A	BUTTON-EJECT;ABS 94,HB,-,BLACK,VP-K80,-	64084-0763-00
150	AD98-11201H	ASSY-CASE FRONT;VP-K80/SEG,-	-
151	AD67-20002A	MIRROR-LIGHT;PC,-,T1.8,CLR,-,-,-,-	64143-0004-00
152	AD63-30005A	COVER-LIGHT;ABS 94,HB,-,BLACK,-,-,-,VP-K80	63312-0248-00
153	AD61-10001A	BODY-LIGHT;PC/ABS 94,V0,T1.2,BLK,-,VP-K80	62212-0123-00
154	AD66-80002A	LINK-LAMP B;PC CLASS,-,T1.2,-,-	61554-0026-00
155	AD66-80001A	LINK-LAMP A;POM 94,HB,T1.5,BLACK,-	61554-0025-00
156	AD61-20016A	HOLDER-LIGHT;ABS 94,HB,-,BLACK,VP-K85,-	63322-0527-00
157	AD59-10328A	UNIT-CAP HOOD;VP-K80,-	-
158	AD67-10002A	LENS-HOOD;PC/ABS 94,HB,D:57.5,BLACK,-,-,	62712-0119-00
159	AC61-32047A	PLATE-NUT;SECC,T0.8,-,-,SV-V40	63474-0036-00
160	AC99-10007L	ASSY-CCD;VP-K80,-	CE-VP-K80
161	AD59-10321A	UNIT-FRAME LENS;VP-K80/SEG,-	-
162	AD59-90001H	UNIT-HOLDER TRIPOD;-,VP-K70,-	67173-0229-00
163	AC90-10012C	ASSY-LENS ZOOM;SEC 14X D28,-	69063-215-045
164	AC29-92002D	FILTER-OLP;SV-3C01MM,KSS,-,-	B1254-0008
165	AC63-62007A	SPACER-CCD;SILICON,-,BLK,-,VP-K70,-	63304-0027-00
166	AC61-10122A	BRACKET-CCD;A 5052,-,T 1.5,-,-,VP-K70,-	63014-0273-00
167	AD63-40822A	SHIELD-CASE;-,SPTE,T0.25,-,VP-K80	-
168	AD90-10803D	ASSY-A/V JACK;SCK80/SEA,-	-
169	AC90-10017A	ASSY-CCD BOARD;VP-K80,-	69063-215-166
172	4713-001007	LAMP-HALLOGEN;6V,500MA,3W,YEL,45LM,-,4.8X15.	-
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	67094-120-250
902	AC60-10024A	SCREW-MACHINE;BH,+,M2,X3,FZW,FE,-,-,-	67094-604-310
905	AD60-10001A	SCREW-MACHINE;BH,B,1.7*5.5,-,FE,BLACK,-,VP-K	60504-0113-01
906	AC60-10073A	SCREW-TAPTITE;BH,+,-,M2,X6,ZP4,FE	67128-520-206
907	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	67128-522-240
909	AC60-12128A	SCREW-TAP TITE BH;-,BH,4 1.7,L4,-,FE,BLK	60509-0129-00
910	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	67128-521-206
ICC01	0605-000110	CCD;COLOR,DIP,14P,400MIL,32K,7.3*4	B4014-0058

Memo

3. Electrical Parts List

Note : According to the change of Part-No system, old and new parts are listed in this service manual together.
When ordering a service part, be sure to use the only new part.

Application Model : VP-K75

Loc. No	New Part No	Description and Specification		Old Part No
160	**AC99-10059N**	**ASSY-CVF;VP-K75**		***EE-VP-K75**
177	**AC90-10011Q**	**ASSY-CVF PROCESS BOARD;VP-K75 PAL,-**		**69063-215-029**
CE01	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE02	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE03	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE04	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE05	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE06	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE07	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE08	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE09	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE10	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE101	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	(ADD)	61454-159-104
CE11	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP		A1106-0155
CE12	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE13	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE14	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE15	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE16	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE17	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE18	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP		61454-154-332
CE19	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,3X5.5MM,-,TP		61619-910-339
CE20	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	(CHANGE)	61454-153-390
CE21	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE22	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP		A1106-0150
CE23	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE24	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	(CHANGE)	61454-153-221
CE25	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	(CHANGE)	A1106-0219
CE26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE27	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP		A1106-0219
CE28	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE29	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	(ADD)	61454-159-104
CE30	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE31	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP		A1106-0155
CE32	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE33	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE34	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE35	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM	(CHANGE)	-
CE36	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE37	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE38	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP		61454-153-330

Loc. No	New Part No	Description and Specification		Old Part No
CE39	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	(CHANGE)	A1106-0127
CE40	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE43	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE44	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP		A1106-0071
CE52	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP		A1106-0150
CE53	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP		61454-154-222
CE54	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP		61454-153-221
CE55	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM	(CHANGE)	-
CE56	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6		61454-159-104
CE77	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP		61454-154-103
CE88	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	(CHANGE)	A1106-0150
CE89	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP		A1106-0155
CNE01	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM		B6010-0778
CNE02	3711-002196	CONNECTOR-HEADER;,20P,2R,0.8,-,		B6012-0259
CNE03	3711-002613	CONNECTOR-HEADER;3WALL,3P,1R,1.25MM,SMD-S,SN		B6010-0901
DE01	0407-000151	DIODE-ARRAY;MA153,40V,100MA,C2-3,SOT-23,TP		62169-901-082
DE02	0405-000123	DIODE-VARACTOR;1T369,34V,10NA,DSM,TP		B4108-0016
DE03	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-23		A4114-0009
DE04	0403-000645	DIODE-ZENER;RD-12M,12V,11.42-11.9V,200MW,S		62169-106-011
DE05	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2		62169-901-077
DE06	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2		62169-901-077
ICE01	1003-000259	IC-LCD DRIVER;CXA1854AR,QFP,64P,-,SINGLE,53M	(CHANGE)	B4012-0601
ICE02	B4004-0340	IC-LOGIC;TC7W04FU-TE12L SOP TAPE 8P		-
ICE03	AC14-12014T	IC-LINEAR;NJM2360M,SOP,TE3		B4012-0253
LE01	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM		B1160-0030
LE02	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225		-
LE03	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225		-
LE04	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	(CHANGE)	B1160-0011
LE05	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	(CHANGE)	B1160-0010
LE06	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	(CHANGE)	B1160-0010
LE07	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	(CHANGE)	B1160-0010
LED01	0601-000208	LED;CHIP,RED,1.5X2MM,660NM		B4150-0303
QE01	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,-55V,-50V,-150MA,2		A4050-0104
QE02	0501-000604	TR-SMALL SIGNAL;2SC4168-3,NPN,40V,20V,150MA,30		62129-301-067
QE04	0501-000201	TR-SMALL SIGNAL;2SC2812,NPN,55V,50V,150MA	(ADD)	62129-301-117
QE08	0504-001005	TR-DIGITAL;DTC114TU,NPN,200MW,10KOHM	(CHANGE)	-
RE01	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	(DELETE)	61079-918-473
RE02	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	(DELETE)	61079-918-683
RE03	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608	(DELETE)	61079-918-433
RE04	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	(DELETE)	61079-918-273
RE05	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608		61079-918-433
RE06	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608		61079-918-223
RE07	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608		61079-918-273
RE08	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608		61079-918-333
RE09	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608		61079-918-563
RE10	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE100	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(ADD)	61079-918-223
RE11	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608		61079-918-563
RE111	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(ADD)	61079-918-223
RE112	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(ADD)	61079-918-223
RE113	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(ADD)	61079-918-223
RE12	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608		61079-918-333

Loc. No	New Part No	Description and Specification		Old Part No
RE13	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE14	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608		61079-918-223
RE15	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-223
RE16	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-223
RE17	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-223
RE18	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-223
RE19	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608		61079-918-223
RE20	2007-000805	R-CHIP;36KOHM,5%,1/16W,DA,TP,1608		A1020-0446
RE21	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE22	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE23	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE24	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608		61079-918-223
RE26	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	(CHANGE)	A1020-0136
RE27	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-102
RE28	61079-918-000	R-CHIP;RH C1608 CS000-J	(DELETE)	-
RE29	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608		61079-918-102
RE30	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608		61079-918-333
RE31	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE32	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-221
RE33	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608		61079-918-472
RE34	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-152
RE35	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-471
RE36	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	(CHANGE)	A1020-0618
RE37	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE38	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE39	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE40	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-433
RE41	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-292
RE42	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608		61079-918-181
RE43	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE44	2007-000126	R-CHIP;4.3KOHM,5%,1/16W,DA,TP,1608		61079-918-432
RE45	2007-000639	R-CHIP;270OHM,1%,1/10W,DA,TP,2012		A1020-0357
RE46	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-563
RE47	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608		61079-918-473
RE48	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE50	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608		61079-918-334
RE51	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608		61079-918-334
RE52	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608		61079-918-334
RE53	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	(ADD)	61079-918-683
RE54	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE55	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608		61079-918-103
RE56	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608		61079-918-102
RE60	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-153
RE61	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-223
RE62	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	(CHANGE)	61079-918-332
VRE01	2104-000181	VR-SMD;20KOHM,30%,1/20W,TOP		B1056-0098
VRE02	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	(CHANGE)	B1056-0011
VRE03	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	(CHANGE)	61249-924-002
VRE04	2104-000114	VR-SMD;1KOHM,25%,0.15W,TOP	(CHANGE)	61249-924-001
VRE05	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	(CHANGE)	B1056-0011
VRE06	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	(ADD)	61249-924-002
VRE07	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	(ADD)	61249-924-002

Loc. No	New Part No	Description and Specification	Old Part No
XE01	2801-001437	CRYSTAL-SMD;4.433619MHZ,20PPM,28-AAE,16PF,	B1280-0257
178	**AC90-10011R**	**ASSY-CVF DRIVE BOARD;VN-K75 NTSC,-**	**69063-215-030**
CE105	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP (ADD)	A1106-0219
CNE04	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5MM,SMD-S,SN	B6010-1089
CNE05	3710-000391	CONNECTOR-SOCKET;20P,2R,0.8MM,STRAIGHT,SN	B6010-1811
LCD01	AC07-10001L	LCD DISPLAY;LCX005BKB,COLOR,537X222,0.5 IN (DELETE)	B4155-0087
179	**AC90-10011T**	**ASSY B/L BOARD;VN-K75 NTSC,-**	**69063-215-032**
CN901	3711-002172	CONNECTOR-HEADER;BOX,3P,1R,1.5,STRAIGHT,SN	B6010-1810
FL901	B4158-0033	LAMP;3AE4T4KL0502Y 5V 0.3W WHT	-
L901	AC40-22002F	CONVERTER-COIL;-,-	67189-0050-00
Q901	B4054-0053	FET;2SK1474-Z 20W 8A 100V MOS/N-CHANNEL T TL	-

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Loc. No	New Part No	Description and Specification	Old Part No
180	**AD90-10800E**	**ASSY-CVF;VP-K85,S8C PAL**	-
177	**AC90-10011T**	**ASSY B/L BOARD;VN-K75 NTSC,-**	**69063-215-032**
CN901	3711-002172	CONNECTOR-HEADER;BOX,3P,1R,1.5,STRAIGHT,SN	B6010-1810
FL901	B4158-0033	LAMP;3AE4T4KL0502Y 5V 0.3W WHT	-
L901	AC40-22002F	CONVERTER-COIL;-,-	67189-0050-00
Q901	B4054-0053	FET;2SK1474-Z 20W 8A 100V MOS/N-CHANNEL T TL	-
183	**AD90-10800Y**	**ASSY-CVF PROCESS;VP-K85,PAL**	-
CE01	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE02	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE03	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE04	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE05	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE06	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE07	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE08	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE09	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE10	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE101	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE11	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CE12	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE13	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE14	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE15	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE16	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE17	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE18	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	61454-154-332
CE19	2402-000181	C-AL,SMD;3.3UF,20%,35V,GP,3X5.5MM,-,TP	61619-910-339
CE20	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	61454-153-390
CE21	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE22	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CE23	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE24	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP (CHANGE)	61454-153-221
CE25	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CE26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE27	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CE28	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE29	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE30	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE31	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CE32	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE33	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE34	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE35	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM,	-
CE36	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE37	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	61454-154-103
CE38	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	61454-153-330
CE39	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	A1106-0127

Loc. No	New Part No	Description and Specification	Old Part No
CE40	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE44	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	A1106-0071
CE52	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CE53	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	61454-154-222
CE54	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	61454-153-221
CE55	2402-001011	C-AL,SMD;22UF,20%,16V,GP,5.3X5.3X5.4MM,	-
CE56	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	61454-159-104
CE88	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	A1106-0150
CE89	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	A1106-0155
CNE01	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	B6010-0778
CNE02	3711-002196	CONNECTOR-HEADER;,20P,2R,0.8,-,	B6012-0259
CNE03	3711-002613	CONNECTOR-HEADER;3WALL,3P,1R,1.25MM,SMD-S,SN	B6010-0901
DE01	0407-000151	DIODE-ARRAY;MA153,40V,100MA,C2-3,SOT-23,TP	62169-901-082
DE02	0405-000123	DIODE-VARACTOR;1T369,34V,10NA,DSM,TP	B4108-0016
DE03	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-23	A4114-0009
DE04	0403-000645	DIODE-ZENER;RD-12M,12V,11.42-11.9V,200MW,S	62169-106-011
DE05	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
DE06	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	62169-901-077
ICE01	1003-000259	IC-LCD DRIVER;CXA1854AR,QFP,64P,-,SINGLE,53M (CHANGE)	B4012-0601
ICE02	B4004-0340	IC-LOGIC;TC7W04FU-TE12L SOP TAPE 8P	-
ICE03	AC14-12014T	IC-LINEAR;NJM2360M,SOP,TE3	B4012-0253
LE01	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	B1160-0030
LE02	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225	-
LE03	B1160-0043	INDUCTOR,CHIP;33UH-K 73 NLC322522T-330K C3225	-
LE04	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	B1160-0011
LE05	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LE06	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM (CHANGE)	B1160-0010
LE07	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	B1160-0010
LED01	0601-000208	LED;CHIP,RED,1.5X2MM,660NM	B4150-0303
QE01	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,-55V,-50V,-150MA,2	A4050-0104
QE02	0501-000604	TR-SMALL SIGNAL;2SC4168-3,NPN,40V,20V,150MA,30	62129-301-067
QE04	0501-000201	TR-SMALL SIGNAL;2SC2812,NPN,55V,50V,150MA,200M	62129-301-117
QE08	0504-001005	TR-DIGITAL;DTC114TU,NPN,200MW,10KOHM,SOT-	-
RE05	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608	61079-918-433
RE06	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE07	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	61079-918-273
RE08	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE09	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE10	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE100	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE11	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE110	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RE111	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE112	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE113	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	61079-918-183
RE12	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE13	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE14	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE15	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE16	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE17	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE18	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223

Loc. No	New Part No	Description and Specification	Old Part No
RE19	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE20	2007-000805	R-CHIP;36KOHM,5%,1/16W,DA,TP,1608	A1020-0446
RE21	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE22	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE23	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE24	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE26	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	A1020-0136
RE27	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE29	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE30	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	61079-918-333
RE31	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE32	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	61079-918-221
RE33	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	61079-918-472
RE34	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	61079-918-152
RE35	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608 (CHANGE)	61079-918-471
RE36	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	A1020-0618
RE37	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE38	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE39	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE40	2007-000913	R-CHIP;43KOHM,5%,1/16W,DA,TP,1608 (CHANGE)	61079-918-433
RE41	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608 (CHANGE)	61079-918-292
RE42	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	61079-918-181
RE43	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE44	2007-000126	R-CHIP;4.3KOHM,5%,1/16W,DA,TP,1608	61079-918-432
RE45	2007-000639	R-CHIP;270OHM,1%,1/10W,DA,TP,2012	A1020-0357
RE46	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	61079-918-563
RE47	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	61079-918-473
RE48	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE50	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE51	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE52	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	61079-918-334
RE53	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	61079-918-683
RE54	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE55	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	61079-918-103
RE56	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	61079-918-102
RE60	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	61079-918-153
RE61	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	61079-918-223
RE62	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	61079-918-332
VRE01	2104-000181	VR-SMD;20KOHM,30%,1/20W,TOP	B1056-0098
VRE02	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	B1056-0011
VRE03	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
VRE04	2104-000114	VR-SMD;1KOHM,25%,0.15W,TOP	61249-924-001
VRE05	2104-000127	VR-SMD;20KOHM,25%,0.15W,TOP	B1056-0011
VRE06	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
VRE07	2104-000109	VR-SMD;10KOHM,25%,0.15W,TOP	61249-924-002
XE01	2801-001437	CRYSTAL-SMD;4.433619MHZ,20PPM,28-AAE,16PF,	B1280-0257
176	**AD90-10802E**	**ASSY-CVF DRIVE BOARD;VP-K80/SEG,-**	-
CE105	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	A1106-0219
CNE04	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5MM,SMD-S,SN	B6010-1089
CNE05	3710-000391	CONNECTOR-SOCKET;20P,2R,0.8MM,STRAIGHT,SN	B6010-1811

Memo

4. CVF PCB Diagrams

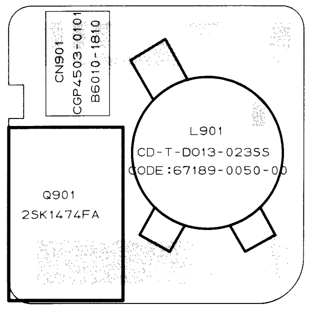
Page

4-1 Back Light ---------------------------- 4-2

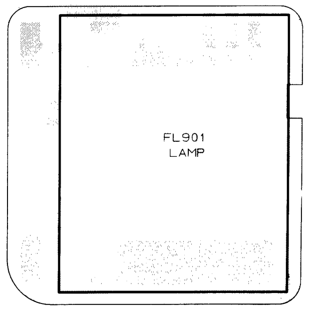
4-2 CVF Drive ----------------------------- 4-2

4-3 CVF Process ------------------------- 4-3

4-1 Back Light

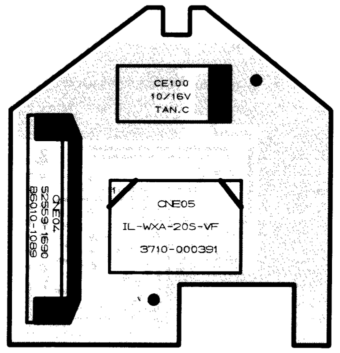

CN901
CGP4503-0101
B6010-1810
L901
CD-T-D013-023SS
CODE:67189-0050-00
Q901
2SK1474FA

(Component Side)

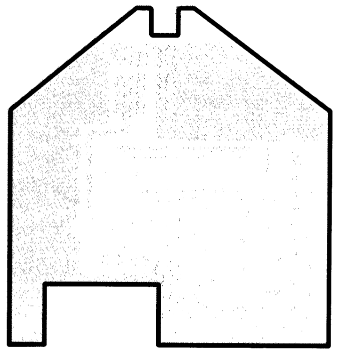


(Conductor Side)

4-2 CVF Drive


CE100
10/16V
TAN.C
CNE04
52559-1690
B6010-1089
CNE05
IL-WXA-20S-VF
3710-000391

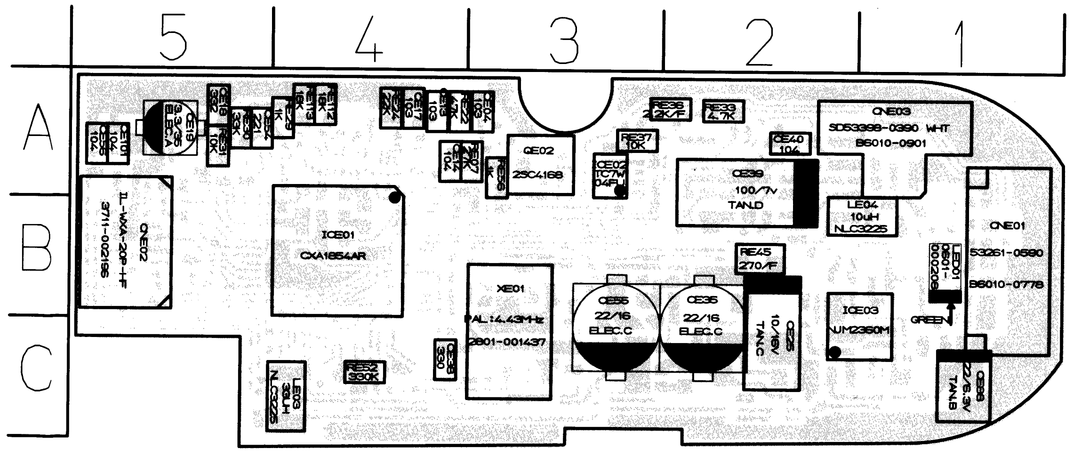
(Component Side)



(Conductor Side)

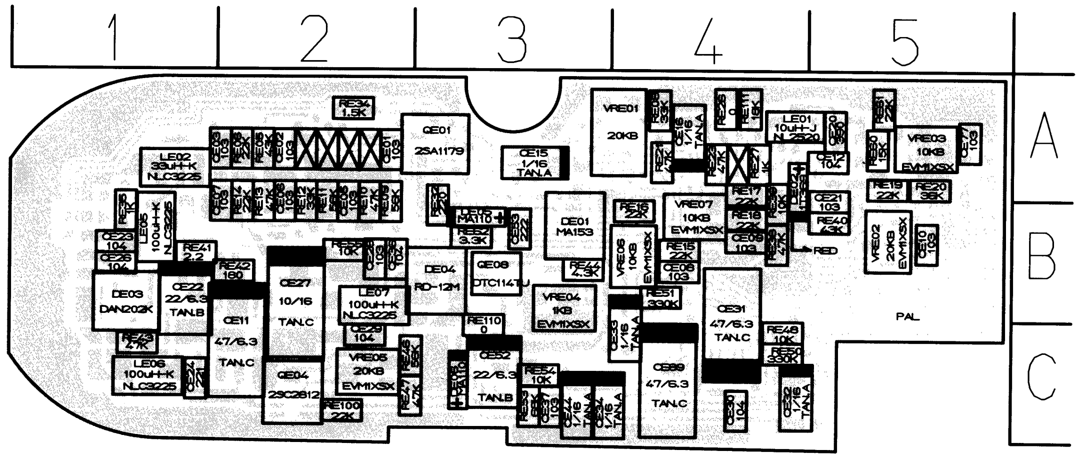
4-3 CVF Process

LOCATION	COORDINATES
CNE01	1-B
CNE02	5-B
CNE03	1-A
ICE01	4-B
ICE02	3-A
ICE03	4-C
LE03	4-C
LE04	1-B
LED01	1-B
QE02	3-A
RE45	2-B
XE01	3-B


5
4
3
2
1
A
B
C
CNE03
CNE02
CNE01
ICE01
CXA1654AR
XE01
PAL 14.43MHz
2801-001437
CE55
22/16
ELEC.C
CE36
22/16
ELEC.C
ICE03
NJM2360M
QE02
2SC4168
CE39
100/7V
TAN.D
LE04
10uH
NLC3225
RE45
270/F
LED01
GREEN
LE03
33uH
NLC3225
CE58
22/6.3V
TAN.B

(Component Side)

LOCATION	COORDINATES
DE01	3-B
DE02	4-B
DE03	1-B
DE04	3-B
DE06	3-C
LE01	4-A
LE02	1-A
LE05	1-B
LE06	1-C
LE07	2-B
QE01	3-A
QE08	3-B
RE34	2-A
VRE01	4-A
VRE02	5-B
VRE03	5-A
VRE04	3-B
VRE05	2-C
VRE06	4-B
VRE07	4-B


1
2
3
4
5
A
B
C
RE34
1.5K
QE01
2SA1179
LE02
33uH-K
NLC3225
CE15
1/16
TAN.A
VRE01
20KB
LE01
10uH-J
VRE03
10KB
EVM1XSX
DE01
MA153
VRE07
10KB
EVM1XSX
VRE02
20KB
DE03
DAN202K
CE22
22/6.3
TAN.B
CE11
47/6.3
TAN.C
CE27
10/16
TAN.C
LE07
100uH-K
NLC3225
DE04
RD-12M
QE06
DTC114TU
VRE04
1KB
EVM1XSX
CE31
47/6.3
TAN.C
CE89
47/6.3
TAN.C
LE06
100uH-K
NLC3225
QE04
2SC2812
VRE05
20KB
EVM1XSX
RED
PAL

(Conductor Side)

5. Schematic Diagrams

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5-1 CVF (VP-K75/VP-K85) - 5-2

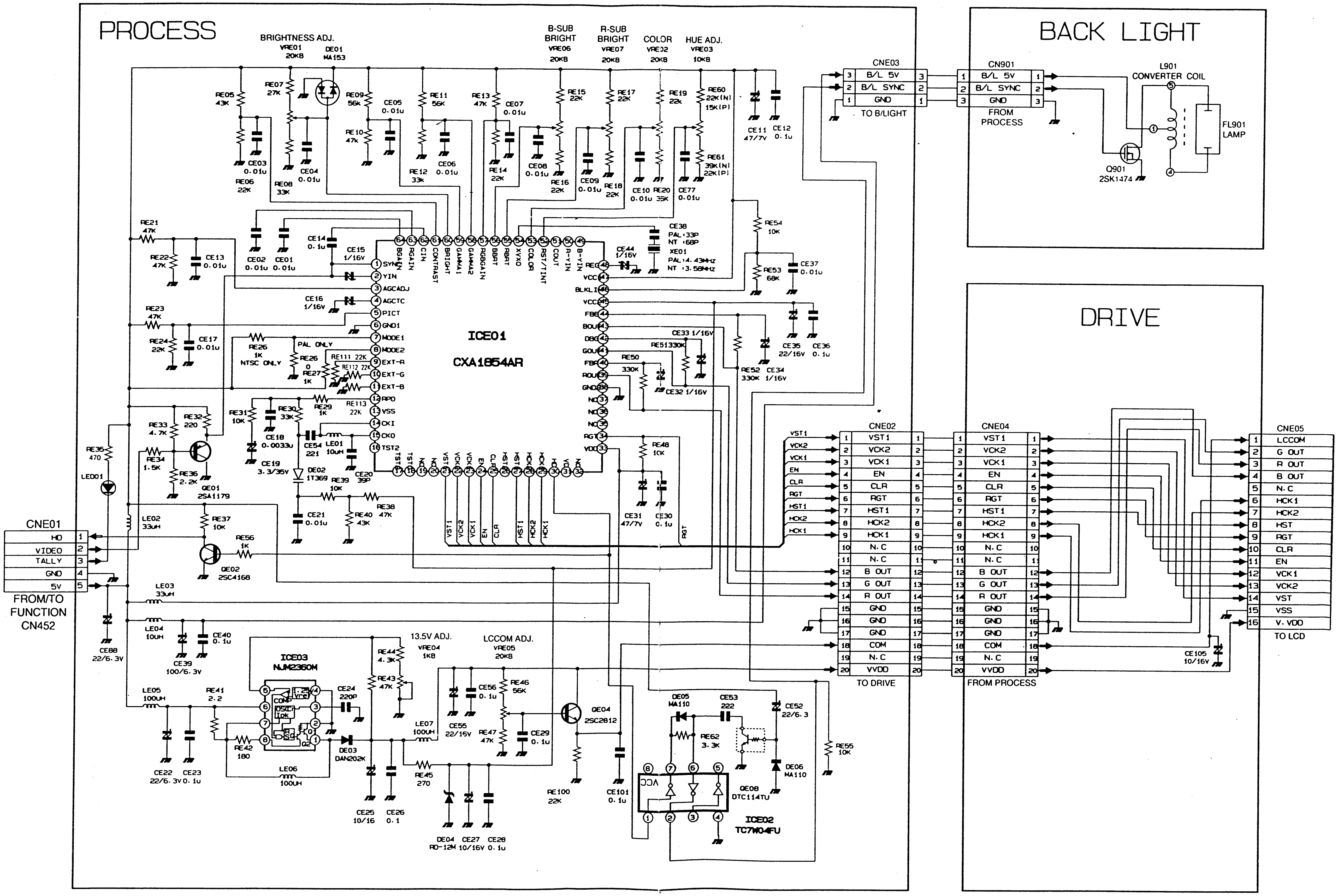
5-2 System Control/Servo (VP-K80/K85) - - - - - - - - - - 5-3

5-3 Video (VP-K80/K85) - 5-4

5-4 CCD (VP-K80/K85) - 5-5

5-5 Camera Main (VP-K80/VP-K85) - - - - - - - - - - - - - - 5-6

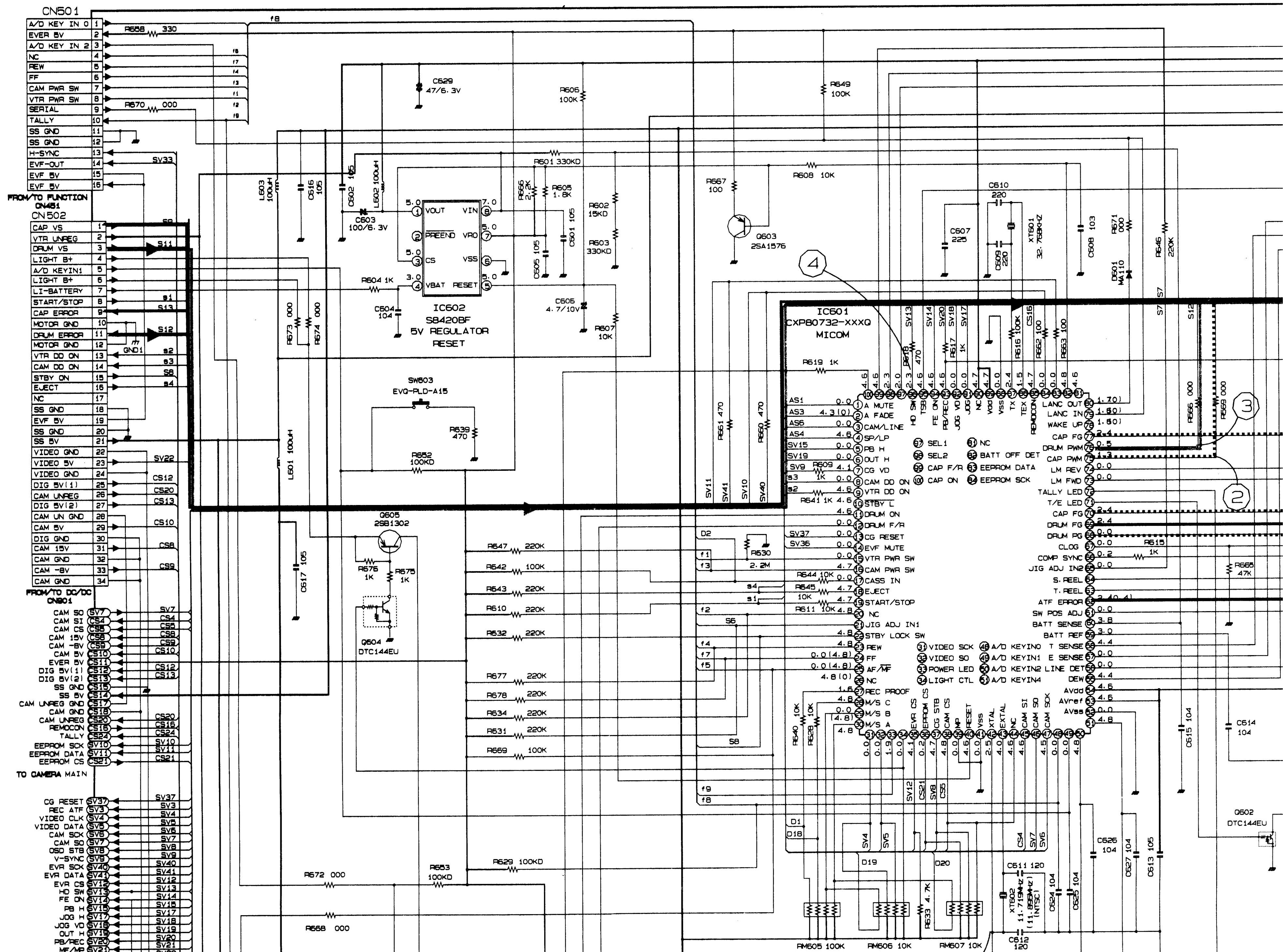
5-1 CVF (VP-K75/VP-K85)


PROCESS
BRIGHTNESS ADJ.
VRE01 20KB
DE01 MA153
B-SUB BRIGHT VRE06 20KB
R-SUB BRIGHT VRE07 20KB
COLOR VRE32 20KB
HUE ADJ. VRE03 10KB
ICE01
CXA1854AR
ICE03
NJM2360M
ICE02
TC7W04FU
13.5V ADJ. VRE04 1KB
LCCOM ADJ. VRE05 20KB
QE01 2SA1179
QE02 2SC4168
QE04 2SC2812
QE08 DTC114TU
DE03 DAN202K
DE04 RD-12M
DE05 MA110
DE06 MA110
CNE01
HD
VIDEO
TALLY
GND
5V
FROM/TO FUNCTION CN452
CNE03
B/L 5V
B/L SYNC
GND
TO B/LIGHT
CNE02
VST1
VCK2
VCK1
EN
CLR
RGT
HST1
HCK2
HCK1
N.C
N.C
B OUT
G OUT
R OUT
GND
GND
GND
COM
N.C
VVDD
TO DRIVE
BACK LIGHT
CN901
B/L 5V
B/L SYNC
GND
FROM PROCESS
L901 CONVERTER COIL
FL901 LAMP
Q901 2SK1474
DRIVE
CNE04
VST1
VCK2
VCK1
EN
CLR
RGT
HST1
HCK2
HCK1
N.C
N.C
B OUT
G OUT
R OUT
GND
GND
GND
COM
N.C
VVDD
FROM PROCESS
CNE05
LCCOM
G OUT
R OUT
B OUT
N.C
HCK1
HCK2
HST
RGT
CLR
EN
VCK1
VCK2
VST
VSS
V.VDD
TO LCD
CE105 10/16V
PAL ONLY
NTSC ONLY
XE01 PAL:4.43MHz NT:3.58MHz

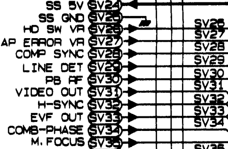
5-2 System Control/Servo (VP-K80/K85)

RED ——————— DRUM SPEED SERVO
------------- DRUM PHASE SERVO

BLUE ——————— CAPSTAN SERVO (SPEED
------------- CAPSTAN PHASE SERVO

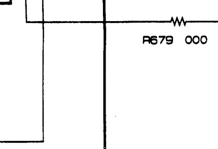

CN501
FROM/TO FUNCTION CN451
CN502
FROM/TO DC/DC CN801
TO CAMERA MAIN
FROM/TO VIDEO
FROM/TO AUDIO
CTP501
TEST POINT
IC601
CXP80732-XXXQ
MICOM
IC602
S8420BF
5V REGULATOR
RESET
SW603
EVQ-PLD-A15
Q603
2SA1576
Q605
2SB1302
Q604
DTC144EU
Q601
DTC144EU
Q602
DTC144EU
Q501
DTA114EU
Q502
DTC114EU
SW604 SPVC2
SW606 SPVC2
SW707 SPVC2
SW605 SPVC2
XT601
32.768KHz
IC504
BA6285FS
LOADING MOTOR
DRIVER
RM605 100K
RM606 10K
RM607 10K
1
2
3
4

①



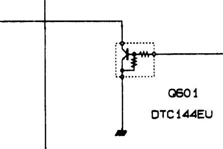
IC601-42
PB
11.8520MHz

②



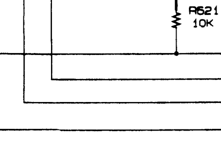
IC601-75
PB
46.726KHz

③



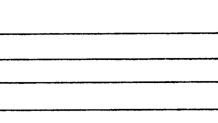
IC601-76
PB
46.728KHz

④



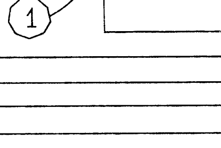
IC601-96
PB
29.938Hz

⑤



IC601-68
PB
29.940Hz

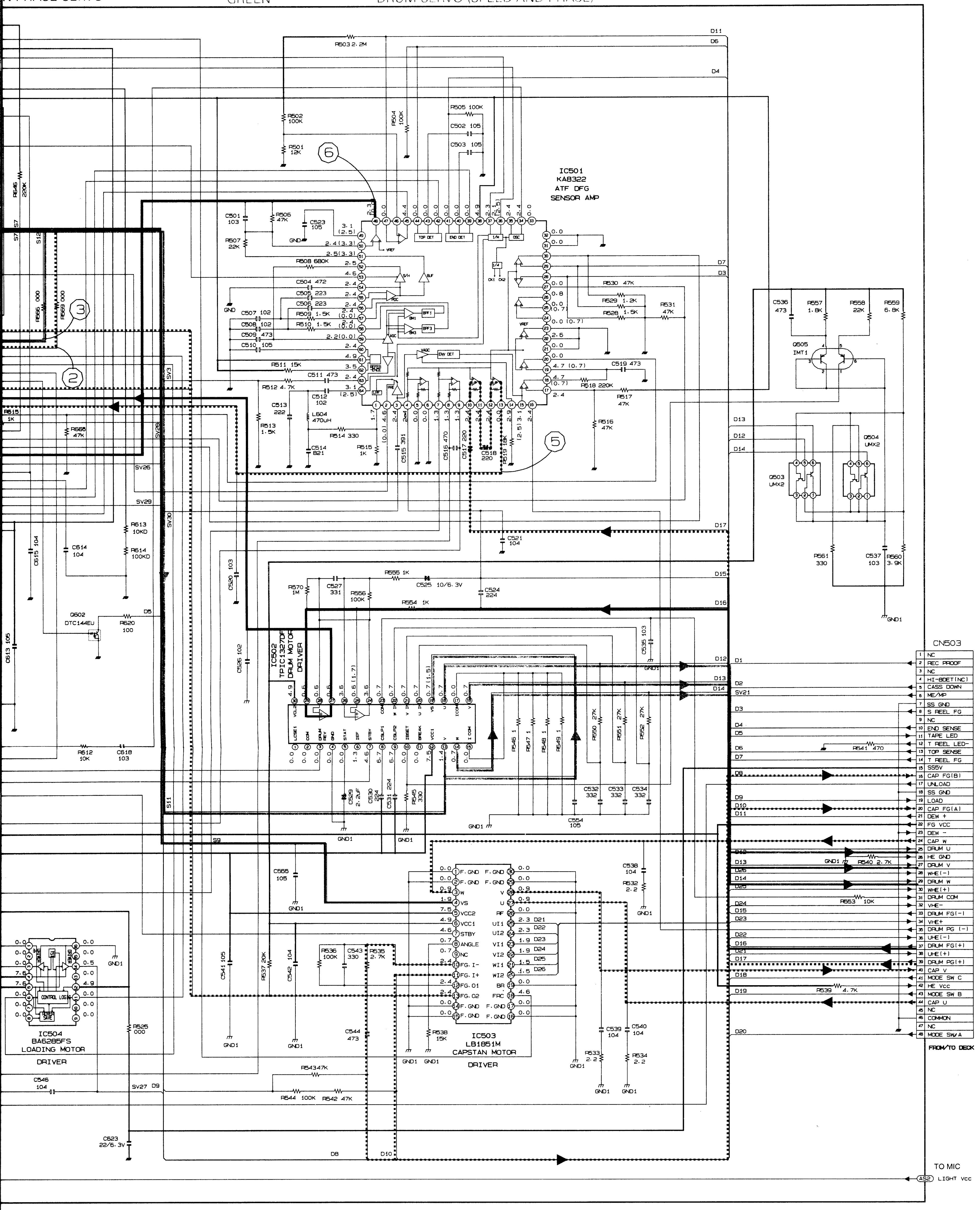
⑥



IC501-48
PB
250mV

N SERVO (SPEED AND PHASE)
N PHASE SERVO

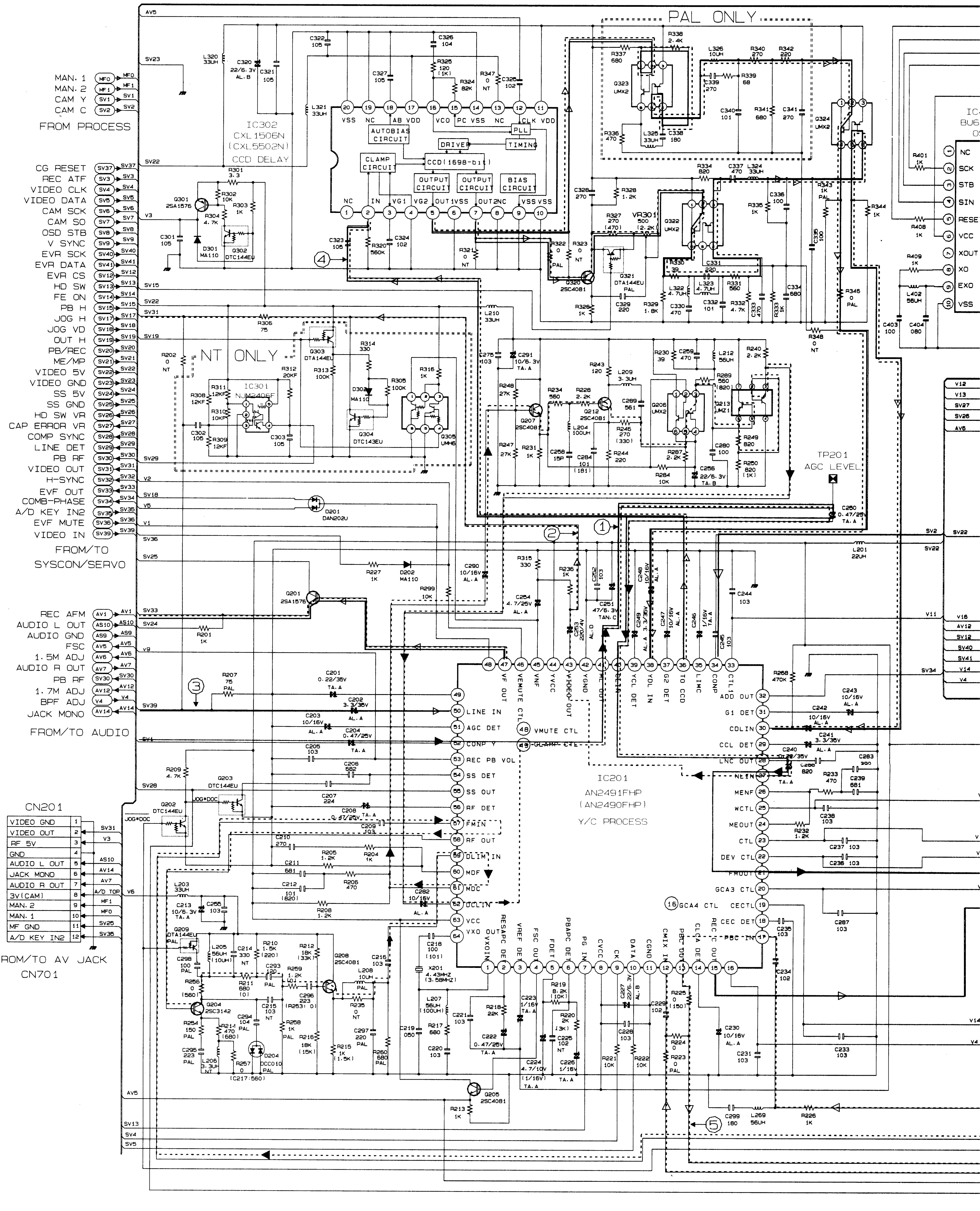
GREEN ——————DRUM SERVO (SPEED AND PHASE)

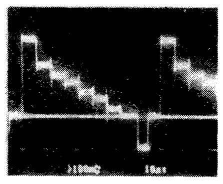

IC501
KA8322
ATF DFG
SENSOR AMP
IC502
TPIC1327DF
DRUM MOTOR
DRIVER
IC503
LB1851M
CAPSTAN MOTOR
DRIVER
IC504
BA6285FS
LOADING MOTOR
DRIVER
Q505
IMT1
Q503
UMX2
Q504
UMX2
Q602
DTC144EU
CN503
1 NC
2 REC PROOF
3 NC
4 HI-BDET(NC)
5 CASS DOWN
6 ME/MP
7 SS GND
8 S REEL FG
9 NC
10 END SENSE
11 TAPE LED
12 T REEL LED-
13 TOP SENSE
14 T REEL FG
15 SS5V
16 CAP FG(B)
17 UNLOAD
18 SS GND
19 LOAD
20 CAP FG(A)
21 DEW +
22 FG VCC
23 DEW -
24 CAP W
25 DRUM U
26 HE GND
27 DRUM V
28 WHE(-)
29 DRUM W
30 WHE(+)
31 DRUM COM
32 VHE-
33 DRUM FG(-)
34 VHE+
35 DRUM PG (-)
36 UHE(-)
37 DRUM FG(+)
38 UHE(+)
39 DRUM PG(+)
40 CAP V
41 MODE SW C
42 HE Vcc
43 MODE SW B
44 CAP U
45 NC
46 COMMON
47 NC
48 MODE SW/A
FROM/TO DECK
TO MIC
AS2
LIGHT Vcc
⑥
⑤
③
②
R503 2.2M
R502 100K
R501 12K
R504 100K
R505 100K
C502 105
C503 105
C501 103
R506 47K
C523 105
R507 22K
R508 680K
C504 472
C505 223
C506 223
C507 102
C508 102
C509 473
C510 105
R509 1.5K
R510 1.5K
R511 15K
R512 4.7K
C511 473
C512 102
C513 222
R513 1.5K
L504 470uH
R514 330
C514 821
R515 1K
C515 391
C516 470
C517 220
C518 220
R519 18K
R530 47K
R529 1.2K
R528 1.5K
R531 47K
C519 473
R518 220K
R517 47K
R516 47K
C536 473
R557 1.8K
R558 22K
R559 6.8K
R561 330
C537 103
R560 3.9K
C521 104
R555 1K
C525 10/6.3V
C524 224
R570 1M
C527 331
R556 100K
R554 1K
C535 103
R550 27K
R551 27K
R552 27K
R546 1
R547 1
R548 1
R549 1
C532 332
C533 332
C534 332
C554 105
C529 2.2uF
C530 224
C531 224
R545 330
R541 470
R540 2.7K
R553 10K
R539 4.7K
C538 104
R532 2.2
C555 105
R536 100K
C543 330
R535 2.7K
R538 15K
C544 473
C539 104
C540 104
R533 2.2
R534 2.2
C541 105
R537 20K
C542 104
R543 47K
R544 100K
R542 47K
C546 104
C623 22/6.3V
R525 000
R612 10K
C618 103
R613 10KD
R614 100KD
C614 104
C615 104
C613 105
R620 100
R665 47K
R615 1K
R645 220K
R666 000
R669 000
C520 103
C526 102
F.GND
W
VS
VCC2
VCC1
STBY
ANGLE
NC
FG. I-
FG. I+
FG. O1
FG. O2
V
U
RF
UI1
UI2
VI1
VI2
WI1
WI2
BR
FRC
TOP DET
END DET
S/H
OSC
VREF
BUF
AGC
BPF1
BPF3
ENV DET
CONTROL LOGIC
GND
GND1
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
S7
S9
S11
S12
SV3
SV21
SV26
SV27
SV28
SV29
SV30

5-3 Video (VP-K80/K85)

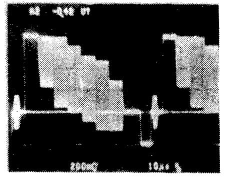
RED ———— VIDEO (Y+C) REC PROCESS BLUE ———— REC C PROCESS GREEN

- - - - VIDEO (Y+C) PB PROCESS - - - - PB C PROCESS


MAN. 1
MAN. 2
CAM Y
CAM C
FROM PROCESS
CG RESET
REC ATF
VIDEO CLK
VIDEO DATA
CAM SCK
CAM SO
OSD STB
V SYNC
EVR SCK
EVR DATA
EVR CS
HD SW
FE ON
PB H
JOG VD
OUT H
PB/REC
ME/MP
VIDEO 5V
VIDEO GND
SS 5V
SS GND
HD SW VR
CAP ERROR VR
COMP SYNC
LINE DET
PB RF
VIDEO OUT
H-SYNC
EVF OUT
COMB-PHASE
A/D KEY IN2
EVF MUTE
VIDEO IN
FROM/TO SYSCON/SERVO
REC AFM
AUDIO L OUT
AUDIO GND
FSC
1.5M ADJ
AUDIO R OUT
PB RF
1.7M ADJ
BPF ADJ
JACK MONO
FROM/TO AUDIO
CN201
VIDEO GND 1
VIDEO OUT 2
RF 5V 3
GND 4
AUDIO L OUT 5
JACK MONO 6
AUDIO R OUT 7
3V(CAM) 8
MAN. 2 9
MAN. 1 10
MF GND 11
A/D KEY IN2 12
FROM/TO AV JACK CN701
PAL ONLY
NT ONLY
IC302 CXL1506N (CXL5502N) CCD DELAY
AUTOBIAS CIRCUIT
DRIVER
TIMING
PLL
CLAMP CIRCUIT
CCD(1698-bit)
OUTPUT CIRCUIT
BIAS CIRCUIT
IC301 NJM2406F
IC201 AN2491FHP (AN2490FHP) Y/C PROCESS
TP201 AGC LEVEL
LINE IN
AGC DET
VMUTE CTL
REC PB VOL
SS DET
SS OUT
RF DET
FMIN
RF OUT
DLIM IN
MDF
MDC
DCLIN
VCC
VXO OUT
ADD OUT
G1 DET
CDLIN
CCL DET
LNC OUT
MENF
WCTL
MEOUT
CTL
DEV CTL
FMOUT
GCA3 CTL
GCA4 CTL
CECTL
CEC DET
PBC IN
IC4 BU6
NC
SCK
STB
SIN
RESE
VCC
XOUT
XO
EXO
VSS
① ② ③ ④ ⑤

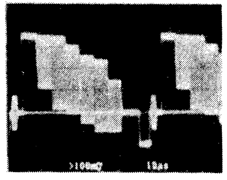
① 

IC201-41
PB.REC
500mVp-p

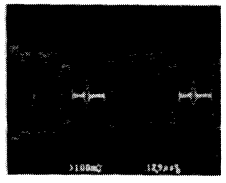
② ③ 

IC201-43
PB
1Vp-p

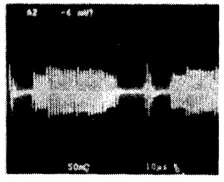
IC201-50
REC
1Vp-p

④ 

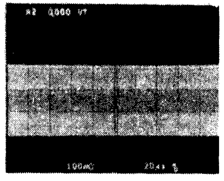
IC302-2
PB.REC
500mVp-p

⑤ 

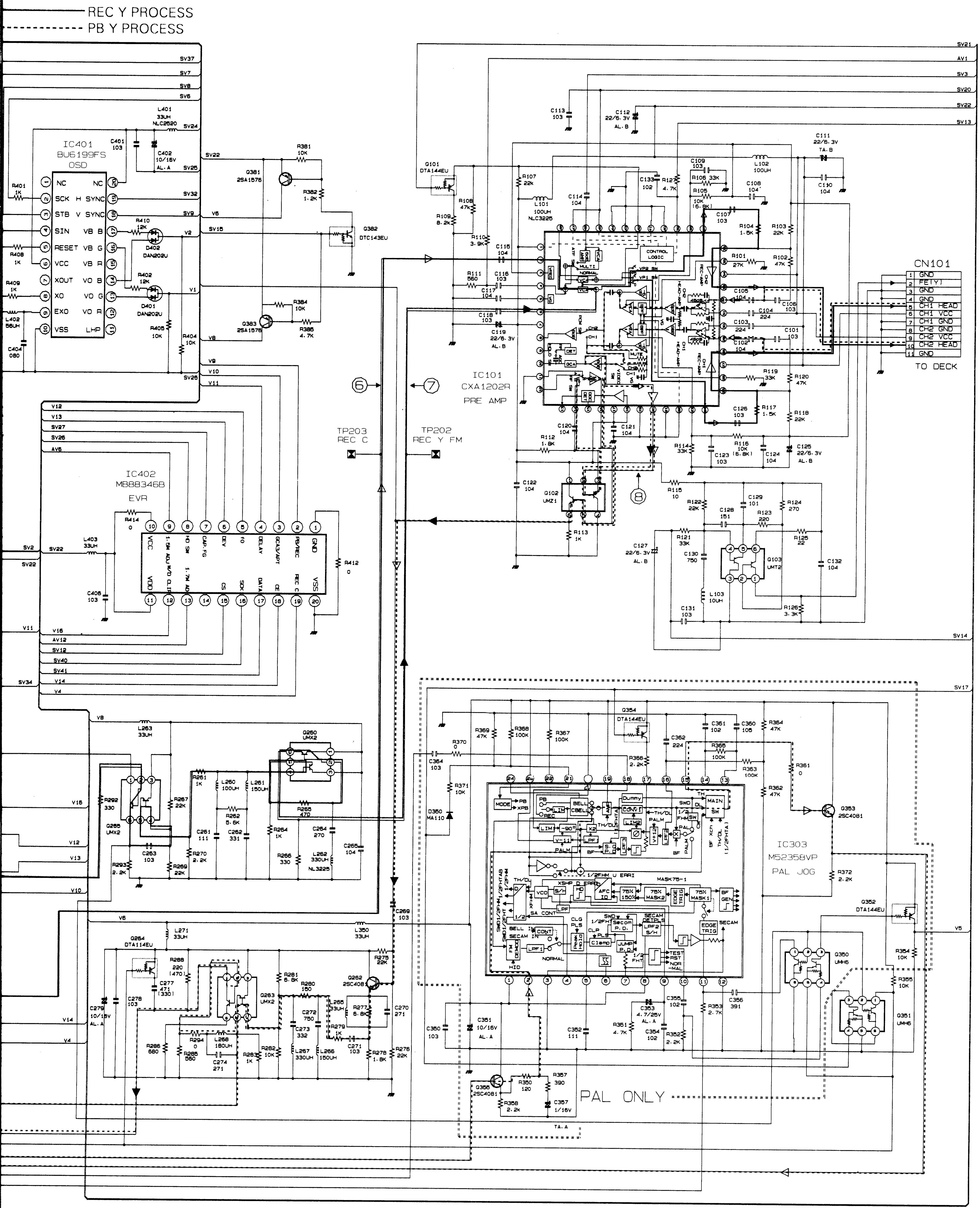
IC201-13
PB
400mVp-p

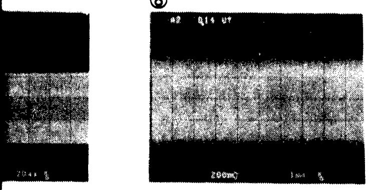
⑥ 

IC101-2
REC
120mVp-p

⑦ 

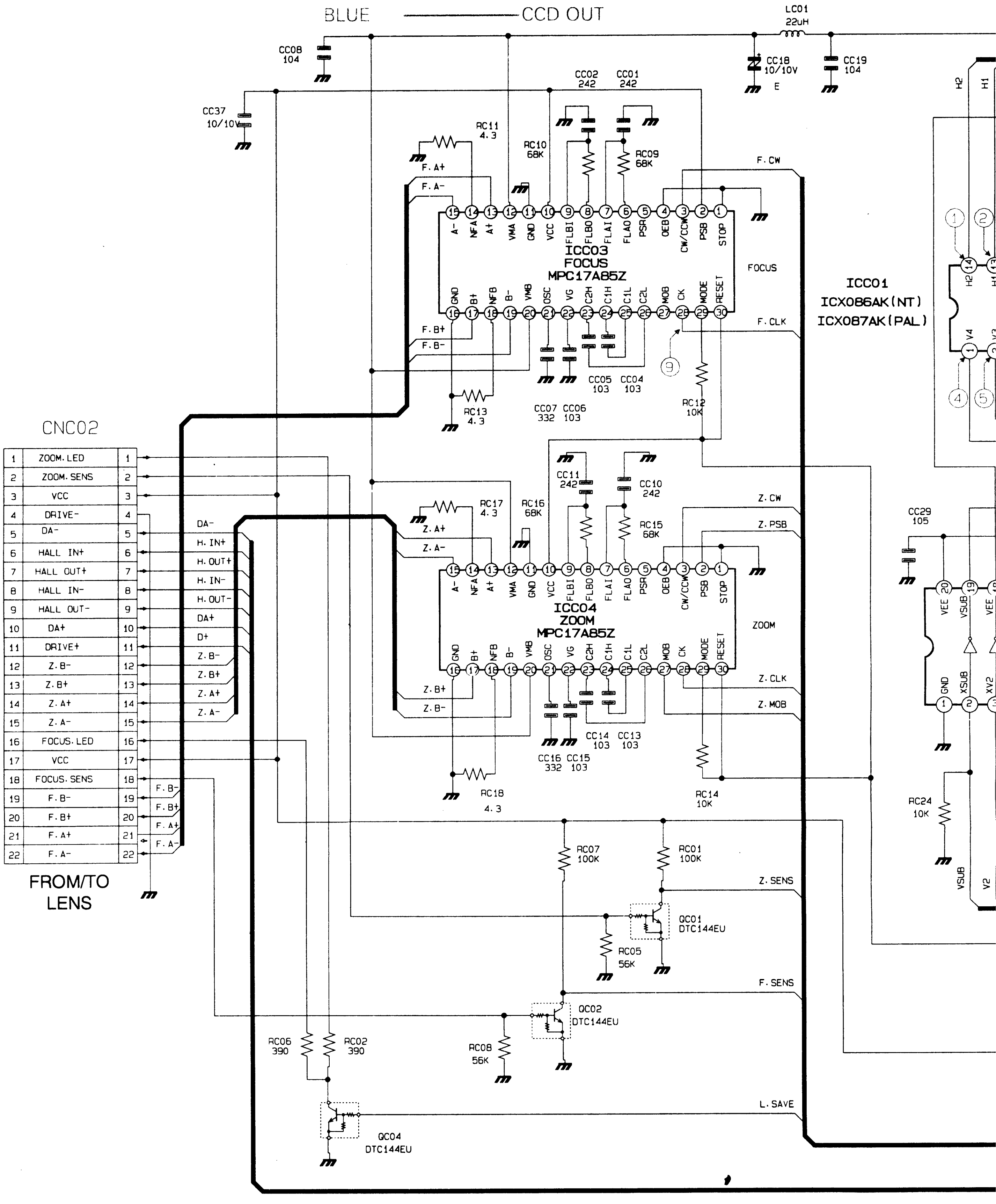
IC101-8
REC
280mVp-p

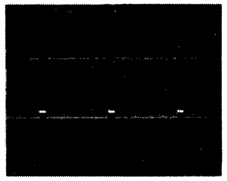

REC Y PROCESS
PB Y PROCESS
IC401 BU6199FS OSD
NC
SCK
STB
SIN
RESET
VCC
XOUT
XO
EXO
VSS
H SYNC
V SYNC
VB B
VB G
VB R
VO B
VO G
VO R
LHP
D402 DAN202U
D401 DAN202U
Q381 2SA1576
Q382 DTC143EU
Q383 2SA1576
IC402 MB88346B EVR
VCC
VDD
GND
VSS
DELAY
REC C
DATA
CE
SCK
CS
Q260 UMX2
Q265 UMX2
Q264 DTA114EU
Q263 UMX2
Q262 2SC4081
TP203 REC C
TP202 REC Y FM
⑥
⑦
⑧
IC101 CXA1202R PRE AMP
CONTROL LOGIC
Q101 DTA144EU
Q102 UMZ1
Q103 UMT2
CN101
1 GND
2 FE(Y)
3 GND
4 GND
5 CH1 HEAD
6 CH1 VCC
7 CH1 GND
8 CH2 GND
9 CH2 VCC
10 CH2 HEAD
11 GND
TO DECK
IC303 M52358VP PAL JOG
Q354 DTA144EU
Q353 2SC4081
Q352 DTA144EU
Q350 UMH6
Q351 UMH6
Q355 2SC4081
D350 MA110
PAL ONLY
SV21
AV1
SV3
SV20
SV22
SV13
SV14
SV17
V5

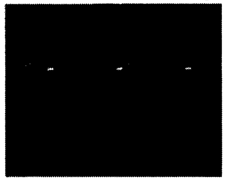


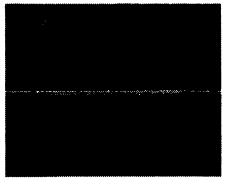
IC101-16
PB
300mVp-p

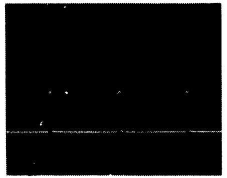
5-4 CCD (VP-K80/K85)

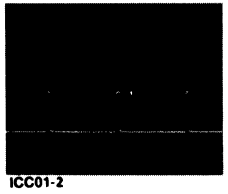

BLUE
CCD OUT
LC01 22uH
CC08 104
CC18 10/10V E
CC19 104
CC37 10/10V
CC02 242
CC01 242
RC11 4.3
RC10 68K
RC09 68K
F.A+
F.A-
F.CW
ICC03
FOCUS
MPC17A85Z
A- NFA A+ VMA GND VCC FLB1 FLB0 FLAI FLA0 PSR OEB CW/CCW PSB STOP
GND B+ NFB B- VMB OSC VG C2H C1H C1L C2L MOB CK MODE RESET
FOCUS
F.CLK
F.B+
F.B-
CC05 103
CC04 103
CC07 332
CC06 103
RC13 4.3
RC12 10K
ICC01
ICX086AK(NT)
ICX087AK(PAL)
H2 H1 V4 V3
CNC02
1 ZOOM.LED
2 ZOOM.SENS
3 VCC
4 DRIVE-
5 DA-
6 HALL IN+
7 HALL OUT+
8 HALL IN-
9 HALL OUT-
10 DA+
11 DRIVE+
12 Z.B-
13 Z.B+
14 Z.A+
15 Z.A-
16 FOCUS.LED
17 VCC
18 FOCUS.SENS
19 F.B-
20 F.B+
21 F.A+
22 F.A-
DA-
H.IN+
H.OUT+
H.IN-
H.OUT-
DA+
D+
Z.B-
Z.B+
Z.A+
Z.A-
F.B-
F.B+
F.A+
F.A-
FROM/TO LENS
CC11 242
CC10 242
RC17 4.3
RC16 68K
RC15 68K
Z.A+
Z.A-
Z.CW
Z.PSB
ICC04
ZOOM
MPC17A85Z
ZOOM
Z.CLK
Z.MOB
Z.B+
Z.B-
CC14 103
CC13 103
CC16 332
CC15 103
RC18 4.3
RC14 10K
CC29 105
VEE VSUB GND XSUB XV2
RC24 10K
VSUB V2
RC07 100K
RC01 100K
Z.SENS
QC01 DTC144EU
RC05 56K
F.SENS
QC02 DTC144EU
RC08 56K
RC06 390
RC02 390
L.SAVE
QC04 DTC144EU
⑨

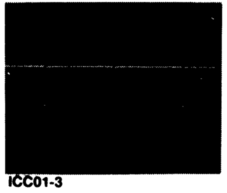

①
ICC01-14
H2

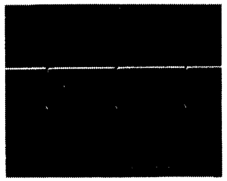

②
ICC01-13
H1

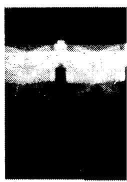

③
ICC01-12
RG

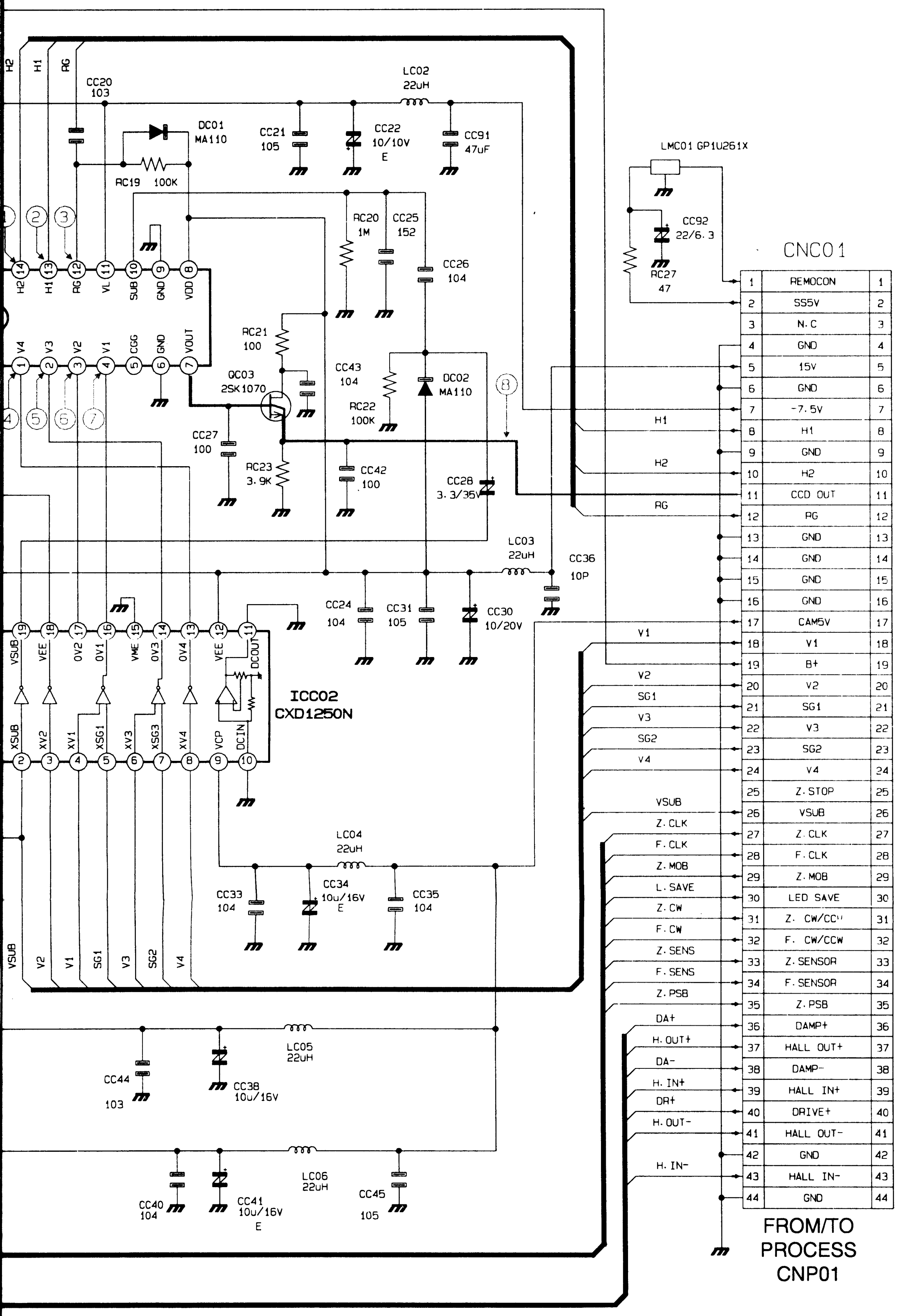

④
ICC01-1
V4


⑤
ICC01-2
V3


⑥
ICC01-3
V2


⑦
ICC01-4
V1


QCC03-E
CCD OUT

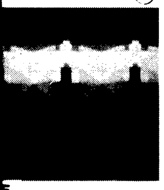

H2
H1
RG
CC20
103
DC01
MA110
RC19 100K
CC21
105
CC22
10/10V
E
LC02
22uH
CC91
47uF
RC20
1M
CC25
152
CC26
104
②
③
H2 14
H1 13
RG 12
VL 11
SUB 10
GND 9
VDD 8
V4 1
V3 2
V2 3
V1 4
CGG 5
GND 6
VOUT 7
④
⑤
⑥
⑦
RC21
100
QC03
2SK1070
CC43
104
RC22
100K
DC02
MA110
⑧
CC27
100
RC23
3.9K
CC42
100
CC28
3.3/35V
LC03
22uH
CC36
10P
CC24
104
CC31
105
CC30
10/20V
VSUB 19
VEE 18
OV2 17
OV1 16
VME 15
OV3 14
OV4 13
VEE 12
DCOUT 11
ICC02
CXD1250N
XSUB 2
XV2 3
XV1 4
XSG1 5
XV3 6
XSG3 7
XV4 8
VCP 9
DCIN 10
LC04
22uH
CC33
104
CC34
10u/16V
E
CC35
104
VSUB
V2
V1
SG1
V3
SG2
V4
LC05
22uH
CC44
103
CC38
10u/16V
CC40
104
CC41
10u/16V
E
LC06
22uH
CC45
105
LMC01 GP1U261X
CC92
22/6.3
RC27
47
H1
H2
RG
V1
V2
SG1
V3
SG2
V4
VSUB
Z.CLK
F.CLK
Z.MOB
L.SAVE
Z.CW
F.CW
Z.SENS
F.SENS
Z.PSB
DA+
H.OUT+
DA-
H.IN+
DR+
H.OUT-
H.IN-

CNC01

1	REMOCON	1
2	SS5V	2
3	N.C	3
4	GND	4
5	15V	5
6	GND	6
7	-7.5V	7
8	H1	8
9	GND	9
10	H2	10
11	CCD OUT	11
12	RG	12
13	GND	13
14	GND	14
15	GND	15
16	GND	16
17	CAM5V	17
18	V1	18
19	B+	19
20	V2	20
21	SG1	21
22	V3	22
23	SG2	23
24	V4	24
25	Z.STOP	25
26	VSUB	26
27	Z.CLK	27
28	F.CLK	28
29	Z.MOB	29
30	LED SAVE	30
31	Z. CW/CCW	31
32	F. CW/CCW	32
33	Z.SENSOR	33
34	F.SENSOR	34
35	Z.PSB	35
36	DAMP+	36
37	HALL OUT+	37
38	DAMP-	38
39	HALL IN+	39
40	DRIVE+	40
41	HALL OUT-	41
42	GND	42
43	HALL IN-	43
44	GND	44

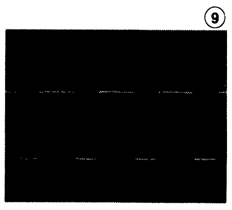
FROM/TO
PROCESS
CNP01

⑧



E
T

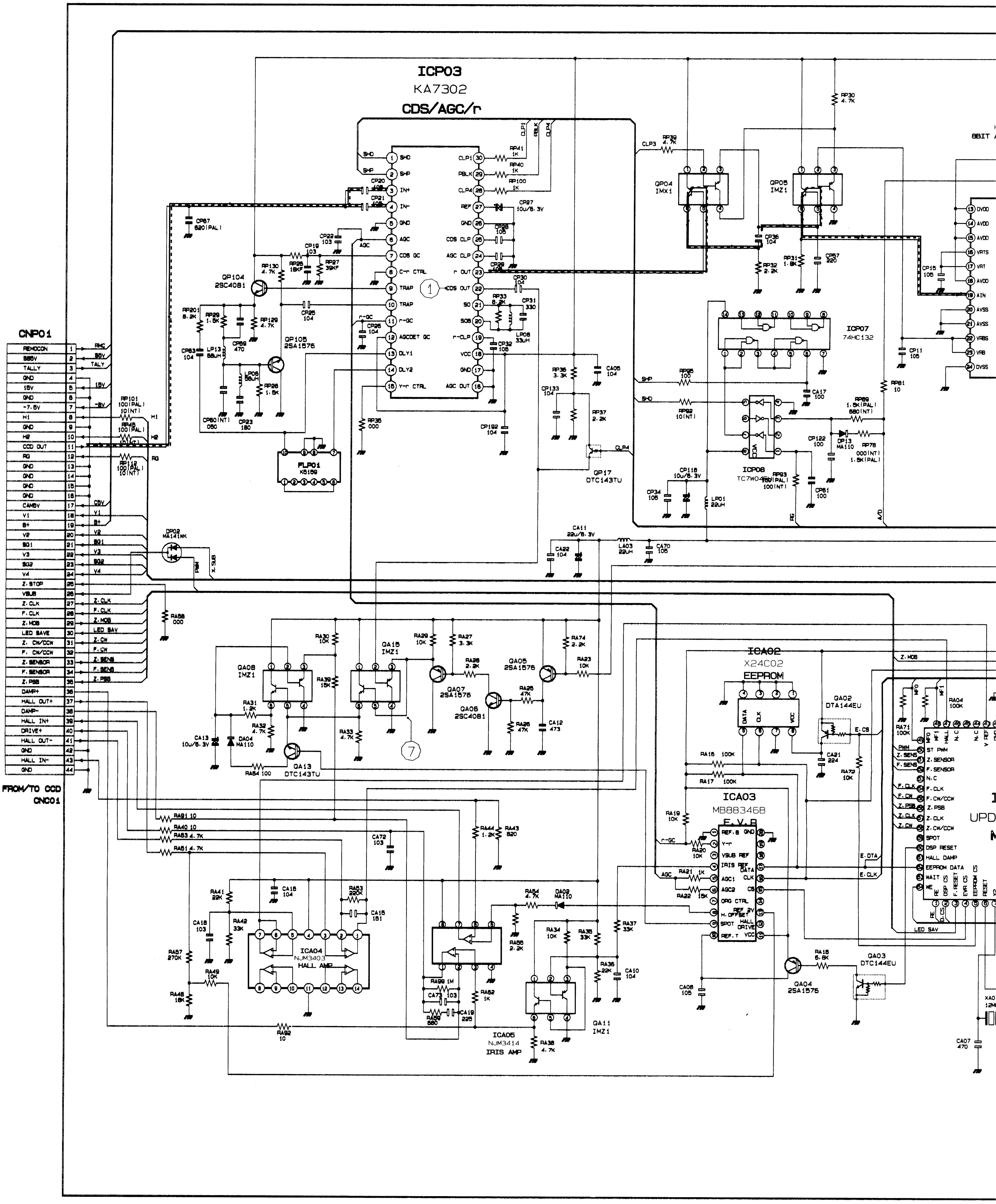
⑨



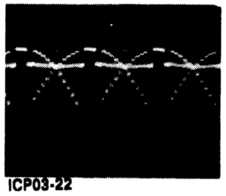
FOCUS

5-5 Camera Main (VP-K80/VP-K85)

RED ——————— CHROMINANCE SIGNAL
------------- LUMINANCE SIGNAL


ICP03
KA7302
CDS/AGC/γ
QP04
IMX1
QP05
IMZ1
ICP07
74HC132
ICP08
TC7W04
QP17
DTC143TU
QP104
2SC4081
QP105
2SA1576
FLP01
K6159
CNP01
FROM/TO CCD
CNC01
QP02
MA141WK
QA08
IMZ1
QA15
IMZ1
QA07
2SA1576
QA06
2SC4081
QA05
2SA1576
QA13
DTC143TU
ICA02
X24C02
EEPROM
QA02
DTA144EU
ICA03
MB88346B
E.V.R
ICA04
NJM3403
HALL AMP
ICA05
NJM3414
IRIS AMP
QA11
IMZ1
QA04
2SA1576
QA03
DTC144EU
LP01
22UH
LA03
22UH
8BIT
UPD

①



ICP03-22
CDS OUT

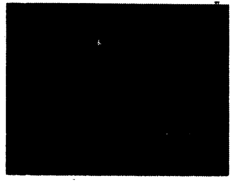
②

ICA01-39
CO

③

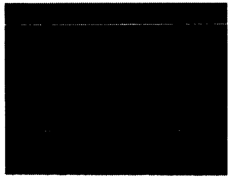
ICA01-38
SCK

④



ICA01-35
CI

⑤



ICA01-29
CS

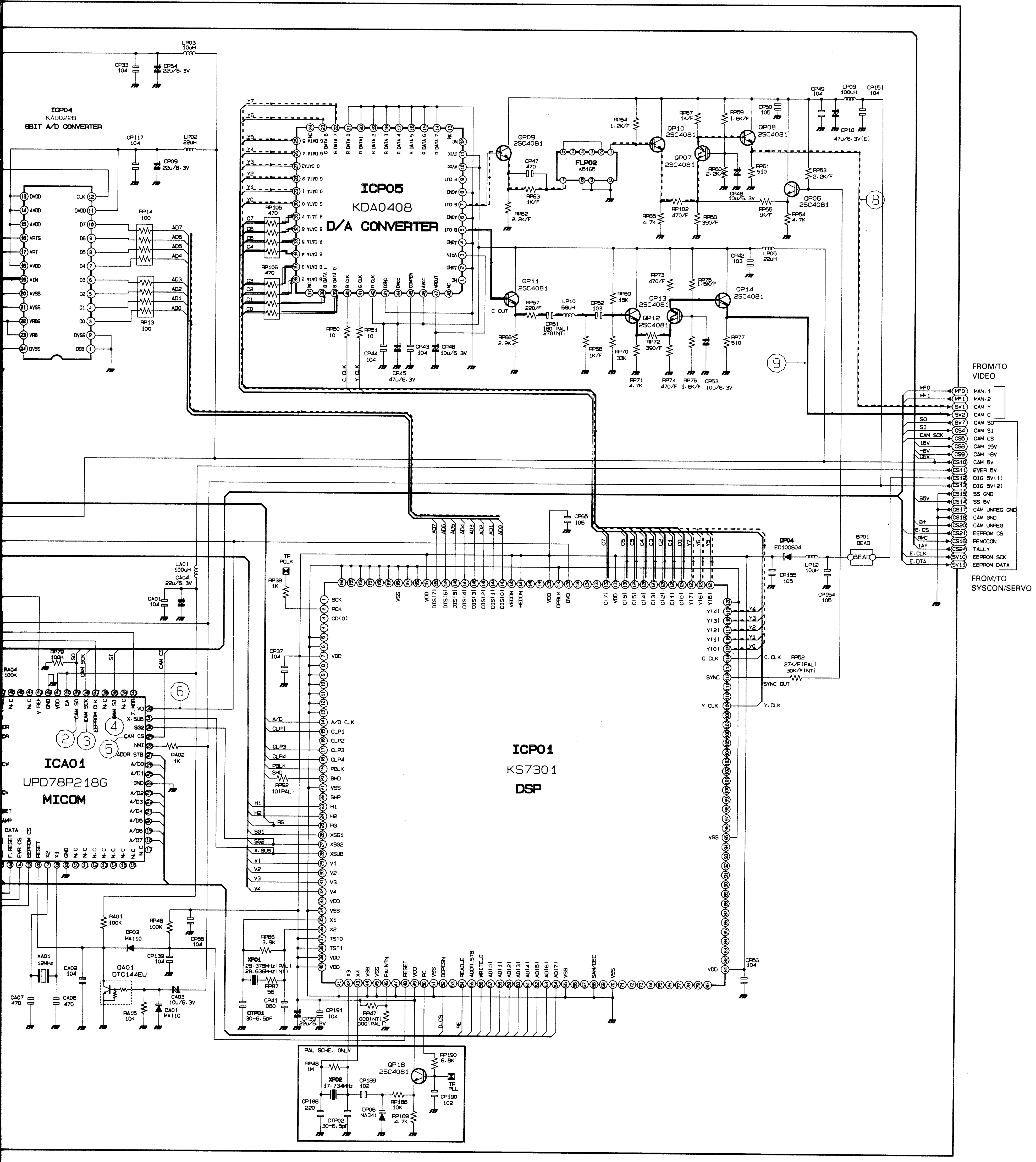
⑥

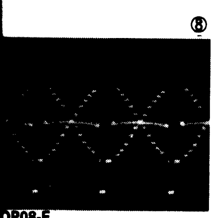
ICA01-32
VD

⑦

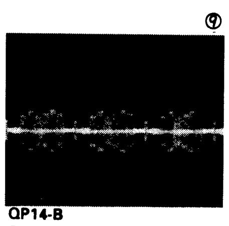
QA05-5
WND

QP08-E
CAM Y


ICP04
KAD0228
8BIT A/D CONVERTER
ICP05
KDA0408
D/A CONVERTER
ICP01
KS7301
DSP
ICA01
UPD78P218G
MICOM
QP09 2SC4081
QP10 2SC4081
QP08 2SC4081
QP07 2SC4081
QP06 2SC4081
QP11 2SC4081
QP12 2SC4081
QP13 2SC4081
QP14 2SC4081
QP18 2SC4081
QA01 DTC144EU
FLP02 K5165
LP03 10uH
LP02 22uH
LP09 100uH
LP05 22uH
LP10 68uH
LP12 10uH
LA01 100uH
DP04 EC10QS04
DP03 MA110
DA01 MA110
DP06 MA341
XP01 28.375MHz(PAL) 28.636MHz(NT)
XP02 17.734MHz
XA01 12MHz
BP01 BEAD
PAL SCHE. ONLY
TP PCLK
TP PLL
C OUT
SYNC OUT
FROM/TO VIDEO
FROM/TO SYSCON/SERVO
MAN. 1
MAN. 2
CAM Y
CAM C
CAM SO
CAM SI
CAM CS
CAM 15V
CAM -8V
CAM 5V
EVER 5V
DIG 5V(1)
DIG 5V(2)
SS GND
SS 5V
CAM UNREG GND
CAM GND
CAM UNREG
EEPROM CS
REMOCON
TALLY
EEPROM SCK
EEPROM DATA
⑥
⑧
⑨



P08-E
AM Y



QP14-B
CAM C